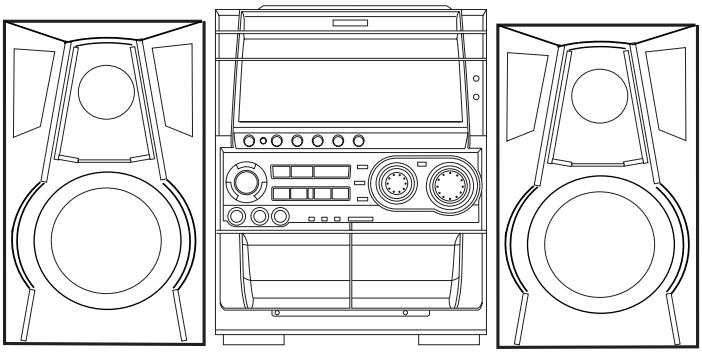
aiwa SERVICE

NSX-SZ70 LH
NSX-SZ73 LH



SERVICE MANUAL

COMPACT DISC STEREO
CASSETTE RECEIVER

BASIC TAPE MECHANISM: 2ZM-3MK2 PR4NM
BASIC CD MECHANISM: AZG-1 ZD3RDM

SYSTEM	CD–CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX–SZ70	CX–NSZ70	SX–WNS70	RC–ZAS01
NSX-SZ73	CX-NSZ73	SX-WNH81	

- This Service Manual is the “Revision Publishing” and replaces “Simple Manual” NSX-SZ70/SZ73 (S/M Code No. 09-001-425-3T1).
- If requiring information about the CD mechanisim, see Service Manual of AZG-1 (S/M Code No. 09-001-335-3N8).

aiwa

S/M Code No. 09-004-425-3R1

REVISION DATA

SPECIFICATIONS

<FM Tuner section>
Tuning range 87.5 MHz to 108 MHz
Usable sensitivity(IHF) 13.2 dBf
Antenna terminals 75 ohms (unbalanced)

<AM Tuner section>
Tuning range 530 kHz to 1710 kHz (10 kHz step)
531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity 350 uV/m
Antenna Loop antenna

<Amplifier section>
Mid-high frequency amplifier
Power output Rated: 32 W + 32 W
(8 ohms, T.H.D. 1 %,1 kHz)
Reference: 40 W + 40 W
(8 ohms, T.H.D. 10 %,1 kHz)
Total harmonic distortion 0.1 % (15 W, 1 kHz, 8 ohms, DIN AUDIO)
Low frequency amplifier
Power output Rated: 96 W + 96 W
(6 ohms, T.H.D. 1 %, 135 Hz)
Reference: 120 W + 120 W
(6 ohms, T.H.D. 10 %,135 Hz)
Total harmonic distortion 0.1 % (50 W,135 Hz,6 ohms, DIN AUDIO)
Inputs VIDEO/AUX : 300 mV (adjustable)
MD: 316 mV (adjustable)
MIC: 1.8 mV (10 kohms)
Outputs SPEAKERS HIGH FREQ :
accept speakers of 8 ohms or more
SPEAKERS LOW FREQ :
accept speakers of 6 ohms or more
SURROUND SPEAKERS :
accept speakers of 8 to 16 ohms
LINE OUT: 210 mV
PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>
Track format 4 tracks, 2 channels stereo
Frequency response CrO2 tape: 50 Hz – 16000 Hz
Normal tape: 50 Hz – 15000 Hz
Recording system AC bias
Heads Deck 1: Playback head x 1
Deck 2: Recording/Playback head x 1, erase head x 1

<Compact disc player section>
Laser Semiconductor laser (λ =780 nm)
D-A converter 1 bit dual
Signal-to-noise ratio 85 dB (1 kHz, 0 dB)
Harmonic distortion 0.05 % (1 kHz, 0 dB)
Wow and flutter Unmeasurable

<Speaker system SX–WNSZ70>(NSX-SZ70)
Speaker system 3 way, Built-in subwoofer(magnetic shielded type
Speaker units Subwoofer :
160 mm cone type
Full range:
100 mm cone type
Super Tweeter :
20 mm ceramic type
Impedance 6 ohms / 8 ohms
Sensitivity 87 dB/W/m
Dimensions (W x H x D) 240 x 324 x 281 mm
Weight 5.0 kg

<Speaker system SX–WNH81>(NSX-SZ73)
Speaker system 3 way, Built-in subwoofer(magnetic shielded type
Speaker units Subwoofer :
200 mm cone type
Full range:
120 mm cone type
Super Tweeter :
20 mm ceramic type
Impedance 6 ohms / 8 ohms
Sensitivity 87 dB/W/m
Dimensions (W x H x D) 240 x 324 x 285 mm
Weight 5.7 kg

<General>
Power requirements 120 V/220-230 V/240 V switchable, 50/60Hz
Power consumption 200W
Power consumption in standby mode If the power-economizing mode is ECO OFF: 21 W
If the power-economizing mode is ECO ON or ECO AUTO: 0.9 W
Dimensions (W x H x D) 260 x 330 x 395mm
Weight 9.5 kg

- Design and specifications are subject to change without notice.

- The word "BBE"and the "BBE symbol" are trademarks of BBE Sound, Inc.
Under license from BBE Sound,Inc.

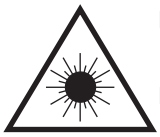
ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NF7-902-010		IB,LH(ESP)M<NSX-SZ70>
2	8A-NF7-912-010		IB,LH(ESP)M 73<NSX-SZ73>
3	87-006-225-010		AM LOOP ANT NC2
4	87-043-115-010		ANT,FEEDER FM
⚠ 5	87-A91-017-010		PLUG,CONVERSION JT-0476
6	8Z-NF8-702-010		RC UNIT,RC-ZAS01

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!
WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

ATTENTION
L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

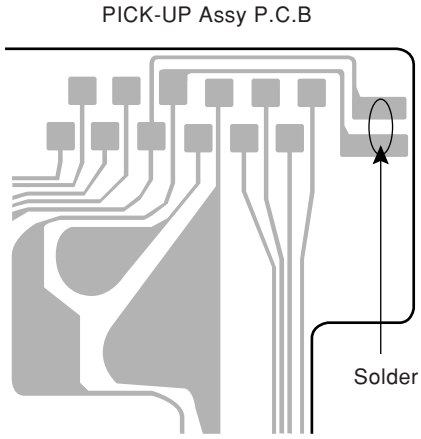
CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

Precaution to replace Optical block

(KSS-213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in right figure.



NOTE ON BEFORE STARTING REPAIR

1. Forced discharge of electrolytic capacitor of power supply block

When repair is going to be attempted in the set that uses relay circuit in the power supply block, electric potential is kept charged across the electrolytic capacitors (C101, 102) even though AC power cord is removed. If repair is attempted in this condition, secondary defect can occur.
In order to prevent the secondary trouble, perform the following measures before starting repair work.

Discharge procedure

① Remove the AC power cord.
② Connect a discharging resistor at an end of lead wire that has clips at both ends. Connect the other end of the lead wire to metal chassis.
③ Contact the other end of the discharging resistor to the positive (+) side (+VH) of C101. (For two seconds)
④ Contact the same end of the discharging resistor as step ③ to the negative (-) side (-VH) of C102 in the same way. (For two seconds)
⑤ Check that voltage across C101 and C102 has decreased to 1 V or less using a multimeter or an oscilloscope.

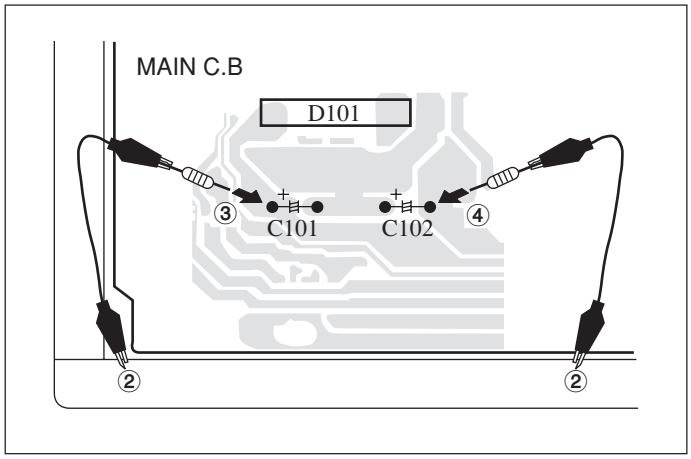


Fig-1

Select a discharging resistor referring to the following table.

Charging voltage (V) (C101, 102)	Discharging resistor (Ω)	Rated power (W)	Parts number
25-48	100	3	87-A00-247-090
49-140	220	5	87-A00-232-090

Note: The reference numbers (C101, C102) of the electrolytic capacitors can change depending on the models. Be sure to check the reference numbers of the charging capacitors on schematic diagram before starting the discharging work.

2. Check items before exchanging the MICROCOMPUTER

Be sure to check the following items before exchanging the MICROCOMPUTER. Exchange the MICROCOMPUTER after confirming that the MICROCOMPUTER is surely defective.

2-1. Regarding the HOLD terminal of the MICROCOMPUTER

When the HOLD terminal (INPUT) of the MICROCOMPUTER is "H", the MICROCOMPUTER is judged to be operating correctly. When this terminal is "L", the main power cannot be turned on. Therefore, be sure to check the terminal voltage of the HOLD terminal before exchange.
When the MICROCOMPUTER is not defective, the HOLD terminal can also go "L" when the POWER AMPLIFIER has any abnormalities that triggers the abnormality detection circuit on the MAIN C. B. that sets the HOLD terminal to "L".

- Good or no good judgement of the MICROCOMPUTER

① Turn on the AC main power.
② Confirm that the main power is turned on and the HOLD terminal of the MICROCOMPUTER keeps the "H" level or not.
③ When the HOLD terminal is "L" level, the abnormality detection circuit is judged to be working correctly and the MICROCOMPUTER is judged to be good.

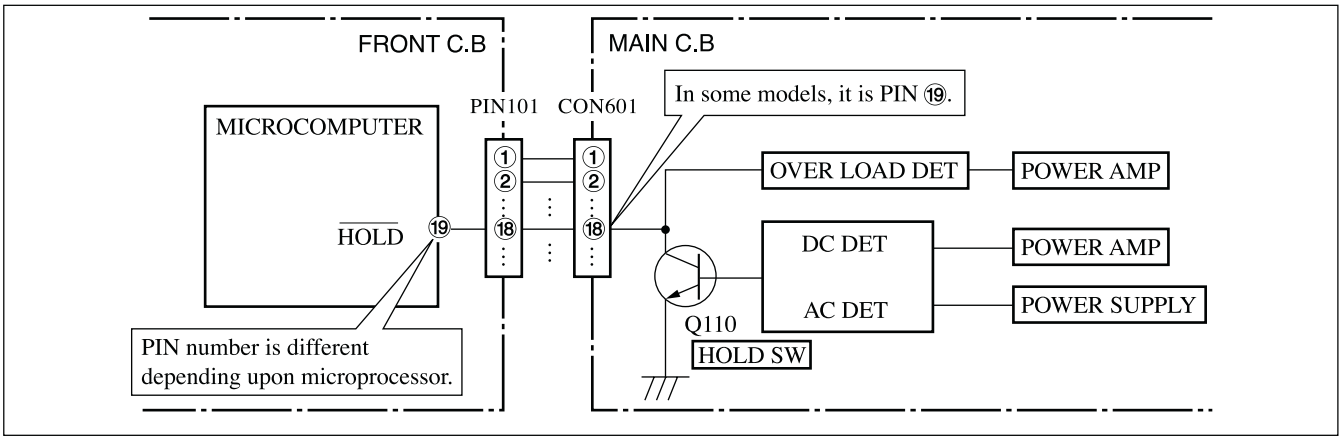


Fig-2-1

In such a case, check also if the POWER AMPLIFIER circuit or power supply circuit has any abnormalities or not.

2-2. Regarding reset

There are cases that the machine does not work correctly because the MICROCOMPUTER is not reset even though the AC power cord is re-inserted, or the software reset (pressing the STOP key + POWER key) is performed.
When the above described phenomenon occurs, it can lead to wrong judgement as if the MICROCOMPUTER is defective and to exchange the MICROCOMPUTER. In such a case, perform the forced-reset by the following procedure and check good or no good of the MICROCOMPUTER.

① Remove the AC power cord.

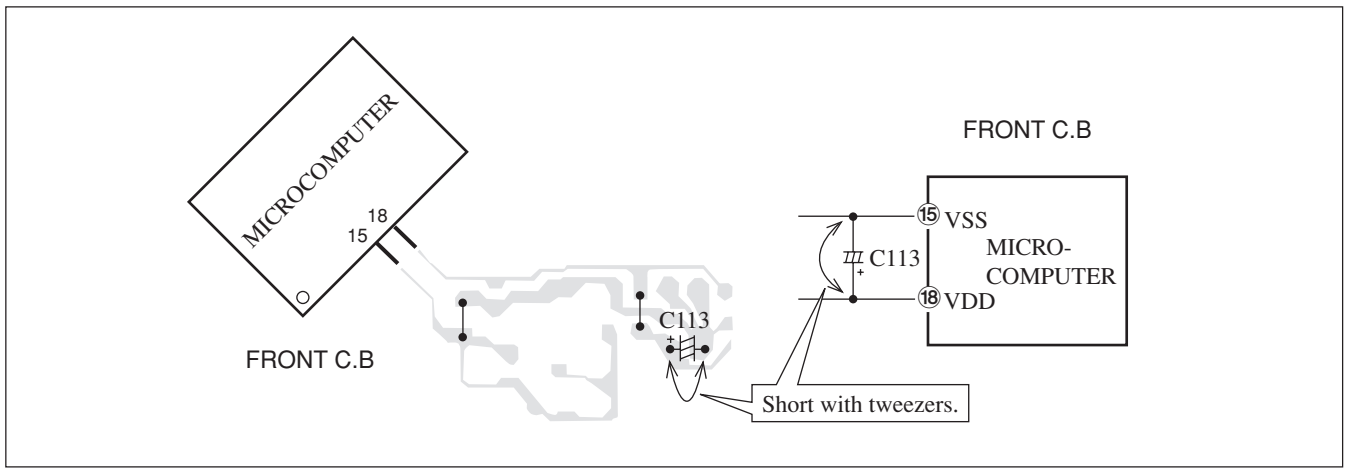


Fig-2-2

② Short both ends of the electrolytic capacitor C113 that is connected to VDD of the MICROCOMPUTER with tweezers.
③ Connect the AC power cord again. If the MICROCOMPUTER returns to the normal operation, the MICROCOMPUTER is good.

Note: The reference number or MICROCOMPUTER pin number of transistor (Q110) and electrolytic capacitor (C113) can change depending on the models. Be sure to check the reference numbers on schematic diagram before starting the discharging work.

2-3. Confirmation of soldering state of MICROCOMPUTER

Check the soldering state of the MICROCOMPUTER in addition to the above described procedures. Be sure to exchange the MICROCOMPUTER after surely confirming that the trouble is not caused by poor soldering but the MICROCOMPUTER itself.

ELETRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	8A-NF6-610-030		C-IC,LC876564V-5P35
	87-A21-418-010		IC,STK490-340
	87-A21-397-010		IC,STK490-070
	87-A21-482-010		IC,RPM6938-H4
	87-A20-783-040		C-IC,BA7762AFS
	87-A21-577-040		C-IC,M61506FP
	87-A21-021-040		C-IC,BU2099FV
	87-070-289-040		IC,BU 2092F
	87-A21-452-040		C-IC,BD3876KS2
	87-A21-051-040		C-IC,BU9990-03FS
	87-A21-415-010		IC,LA1843
	87-070-127-110		IC,LC72131 D
TRANSISTOR			
	87-026-245-080		TR,DTC114ES
	87-026-609-080		TR,KTA1266GR
	87-A30-198-080		TR,KTC3199GR
	87-026-610-080		TR,KTC3198GR
	87-A30-076-080		C-TR,2SC3052F
	87-A30-075-080		C-TR,2SA1235F
	87-A30-318-080		TR,CSA952K
	89-213-702-010		TR,2SB1370 (1.8W)
	87-A30-087-080		C-FET,2SK2158
	87-A30-107-070		C-TR,CMBT5401
	87-A30-073-080		C-TR,RT1N 141C
	87-A30-074-080		C-TR,RT1P 141C
	87-A30-269-040		C-FET,2SJ461-T1
	87-A30-106-070		C-TR,CMBT5551
	87-A30-105-080		C-TR,RT1P 441C
	87-A30-086-040		C-TR,CSD1306E
	87-A30-329-080		TR,CD1585BC
	89-327-143-080		TR,2SC2714 (0.1W)
	87-A30-072-080		C-TR,RT1P 144C
	87-A30-234-080		TR,CSC4115BC
DIODE			
	87-A40-548-090		DIODE,D3SBA20
	87-017-654-060		DIODE,GBU6J
	87-A40-547-090		DIODE,D5SBA20
	87-020-465-080		DIODE,1SS133
	87-A40-553-080		DIODE,1N4003 LES
	87-A40-781-080		ZENER,UZ36BSA
	87-A40-764-080		ZENER,UZ10BSC
	87-A40-313-080		C-DIODE,MC 2840
	87-A40-270-080		C-DIODE,MC2838
	87-A40-269-080		C-DIODE,MC2836
	87-A40-768-080		ZENER,UZ16BSA
	87-A40-752-080		ZENER,UZ6.2BSC
	87-A40-802-080		ZENER,UZ5.1BSC
	87-017-978-080		DIODE,1N4003
	87-A40-745-080		ZENER,UZ4.7BSA
	87-A40-748-080		ZENER,UZ5.6BSA
	87-017-149-080		ZENER,HZS6A2L
MAIN C.B			
C3	87-012-368-080		C-CAP,S 0.1-50 F
C4	87-012-368-080		C-CAP,S 0.1-50 F
C21	87-016-658-000		CAP,E 4700-35 M SMG
C22	87-016-658-000		CAP,E 4700-35 M SMG
C25	87-010-406-080		CAP, ELECT 22-25V
C26	87-010-406-080		CAP, ELECT 22-25V
C27	87-010-405-080		CAP, ELECT 10-25V
C28	87-010-405-080		CAP, ELECT 10-25V
C31	87-010-263-080		CAP, ELECT 100-10V
C32	87-010-197-080		CAP, CHIP 0.01 DM
C34	87-010-384-080		CAP, ELECT 100-25V
C35	87-010-406-080		CAP, ELECT 22-50V
C36	87-010-381-080		CAP, ELECT 330-16V
C38	87-010-394-080		CAP, ELECT 220-35V
C39	87-010-394-080		CAP, ELECT 220-35V
C40	87-010-197-080		CAP, CHIP 0.01 DM
C60	87-010-403-080		CAP, ELECT 3.3-50V
C80	87-010-401-080		CAP, ELECT 1-50V
C81	87-010-263-080		CAP, ELECT 100-10V
C82	87-010-380-080		CAP, ELECT 47-16V
C104	87-010-196-080		CHIP CAPACITOR,0.1-25
C105	87-010-196-080		CHIP CAPACITOR,0.1-25
C111	87-010-545-080		CAP, ELECT 0.22-50V
C112	87-010-545-080		CAP, ELECT 0.22-50V
C113	87-010-545-080		CAP, ELECT 0.22-50V
C114	87-010-545-080		CAP, ELECT 0.22-50V
C115	87-010-546-080		CAP, ELECT 0.33-50V
C116	87-010-546-080		CAP, ELECT 0.33-50V
C121	87-010-546-080		CAP, ELECT 0.33-50V
C122	87-010-546-080		CAP, ELECT 0.33-50V
C171	87-012-368-080		C-CAP,S 0.1-50 F
C172	87-012-368-080		C-CAP,S 0.1-50 F
C173	87-012-368-080		C-CAP,S 0.1-50 F
C174	87-012-368-080		C-CAP,S 0.1-50 F
C301	87-010-318-080		C-CAP,S 47P-50 CH
C302	87-010-318-080		C-CAP,S 47P-50 CH
C303	87-012-157-080		C-CAP,S 330P-50 CH
C304	87-012-157-080		C-CAP,S 330P-50 CH
C305	87-012-157-080		C-CAP,S 330P-50 CH
C306	87-012-157-080		C-CAP,S 330P-50 CH
C307	87-010-196-080		CHIP CAPACITOR,0.1-25
C309	87-010-196-080		CHIP CAPACITOR,0.1-25
C310	87-010-196-080		CHIP CAPACITOR,0.1-25
C311	87-010-198-080		CAP, CHIP 0.022
C312	87-010-198-080		CAP, CHIP 0.022
C313	87-010-179-080		CAP,CHIP S B1200P
C314	87-010-179-080		CAP,CHIP S B1200P
C315	87-010-179-080		CAP,CHIP S B1200P
C316	87-010-179-080		CAP,CHIP S B1200P
C321	87-012-142-080		CAP, S 0.33-16
C322	87-012-142-080		CAP, S 0.33-16
C324	87-010-260-080		CAP, ELECT 47-25V
C325	87-010-370-080		CAP,E 330-6.3 SME
C327	87-010-404-080		CAP, ELECT 4.7-50V
C328	87-010-404-080		CAP, ELECT 4.7-50V
C332	87-010-196-080		CHIP CAPACITOR,0.1-25
C335	87-010-401-080		CAP, ELECT 1-50V
C336	87-010-401-080		CAP, ELECT 1-50V
C337	87-010-196-080		CHIP CAPACITOR,0.1-25
C339	87-010-196-080		CHIP CAPACITOR,0.1-25
C340	87-010-196-080		CHIP CAPACITOR,0.1-25
C351	87-012-140-080		CAP 470P
C352	87-012-140-080		CAP 470P
C354	87-010-175-080		CAP 560P
C355	87-010-178-080		CHIP CAP 1000P
C356	87-010-260-080		CAP, ELECT 47-25V
C357	87-010-197-080		CAP, CHIP 0.01 DM
C358	87-010-183-080		C-CAP,S 2700P-50 B
C359	87-010-183-080		C-CAP,S 2700P-50 B
C360	87-010-183-080		C-CAP,S 2700P-50 B
C363	87-A10-292-080		CAP,M 5600P-50 J
C370	87-010-196-080		CHIP CAPACITOR,0.1-25
C373	87-016-083-080		C-CAP,S 0.15-16 RK
C374	87-016-083-080		C-CAP,S 0.15-16 RK
C378	87-010-196-080		CHIP CAPACITOR,0.1-25
C379	87-010-382-080		CAP, ELECT 22-25V
C380	87-010-382-080		CAP, ELECT 22-25V
C381	87-010-197-080		CAP, CHIP 0.01 DM
C382	87-010-312-080		C-CAP,S 15P-50 CH
C383	87-010-197-080		CAP, CHIP 0.01 DM

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C384	87-010-402-080		CAP, ELECT 2.2-50V
C386	87-010-196-080		CHIP CAPACITOR,0.1-25
C387	87-012-145-080		CAP, CHIP S 270P CH
C388	87-012-156-080		C-CAP,S 220P-50 CH
C391	87-010-319-080		C-CAP,S 56P-50 CH
C392	87-010-319-080		C-CAP,S 56P-50 CH
C393	87-010-319-080		C-CAP,S 56P-50 CH
C394	87-010-319-080		C-CAP,S 56P-50 CH
C536	87-010-196-080		CHIP CAPACITOR,0.1-25
C609	87-010-181-080		CAP,CHIP S 1800P
C610	87-010-181-080		CAP,CHIP S 1800P
C611	87-010-956-080		CHIP-CAP,S 0.068-25B
C612	87-016-369-080		C-CAP,S 0.033-25 B K
C613	87-010-197-080		CAP, CHIP 0.01 DM
C614	87-016-669-080		C-CAP,S 0.1-25 K B
C616	87-010-184-080		CHIP CAPACITOR 3300P(K)
C617	87-012-369-080		C-CAP,S 0.047-50F
C618	87-010-401-080		CAP, ELECT 1-50V
C619	87-010-263-080		CAP, ELECT 100-10V
C620	87-016-669-080		C-CAP,S 0.1-25 K B
C621	87-010-197-080		CAP, CHIP 0.01 DM
C623	87-010-401-080		CAP, ELECT 1-50V
C624	87-010-401-080		CAP, ELECT 1-50V
C626	87-A10-354-080		C-CAP,S 0.047-50 K B
C627	87-010-400-080		CAP, ELECT 0.47-50V
C628	87-010-400-080		CAP, ELECT 0.47-50V
C629	87-A10-354-080		C-CAP,S 0.047-50 K B
C630	87-010-383-080		CAP, ELECT 33-25V
C631	87-010-185-080		C-CAP,S 3900P-50 B
C632	87-010-185-080		C-CAP,S 3900P-50 B
C634	87-010-196-080		CHIP CAPACITOR,0.1-25
C635	87-A10-307-080		CAP,M 0.1-50 J
C636	87-A10-307-080		CAP,M 0.1-50 J
C637	87-A10-307-080		CAP,M 0.1-50 J
C638	87-A10-307-080		CAP,M 0.1-50 J
C639	87-010-405-080		CAP, ELECT 10-50V
C641	87-010-401-080		CAP, ELECT 1-50V
C642	87-010-401-080		CAP, ELECT 1-50V
C643	87-010-196-080		CHIP CAPACITOR,0.1-25
C644	87-010-401-080		CAP, ELECT 1-50V
C671	87-010-322-080		C-CAP,S 100P-50 CH
C672	87-010-322-080		C-CAP,S 100P-50 CH
C673	87-010-197-080		CAP, CHIP 0.01 DM
C679	87-010-196-080		CHIP CAPACITOR,0.1-25
C680	87-010-197-080		CAP, CHIP 0.01 DM
C682	87-010-196-080		CHIP CAPACITOR,0.1-25
C771	87-010-263-080		CAP, ELECT 100-10V
C772	87-010-197-080		CAP, CHIP 0.01 DM
C773	87-010-184-080		CHIP CAPACITOR 3300P(K)
C774	87-010-184-080		CHIP CAPACITOR 3300P(K)
C779	87-A10-679-080		C-CAP,S 3300P-50 JR
C780	87-A10-679-080		C-CAP,S 3300P-50 JR
C782	87-010-197-080		CAP, CHIP 0.01 DM
C783	87-010-197-080		CAP, CHIP 0.01 DM
C784	87-010-197-080		CAP, CHIP 0.01 DM
C785	87-010-197-080		CAP, CHIP 0.01 DM
C786	87-010-197-080		CAP, CHIP 0.01 DM
C788	87-010-149-080		C-CAP,S 5P-50 CH
C789	87-A10-592-080		C-CAP,S 0.015-50 J B
C790	87-A10-592-080		C-CAP,S 0.015-50 J B
C791	87-010-196-080		CHIP CAPACITOR,0.1-25
C792	87-010-197-080		CAP, CHIP 0.01 DM
C793	87-010-404-080		CAP, ELECT 4.7-50V
C795	87-010-197-080		CAP, CHIP 0.01 DM
C796	87-010-197-080		CAP, CHIP 0.01 DM
C797	87-010-405-080		CAP, ELECT 10-50V
C798	87-010-197-080		CAP, CHIP 0.01 DM
C799	87-010-407-080		CAP, ELECT 33-50V
C800	87-012-369-080		C-CAP,S 0.047-50F
C801	87-010-403-080		CAP, ELECT 3.3-50V
C802	87-012-369-080		C-CAP,S 0.047-50F
C803	87-010-198-080		CAP, CHIP 0.022
C804	87-010-263-080		CAP, ELECT 100-10V
C806	87-010-401-040		CAP,E 1-50 SME
C807	87-010-400-080		CAP, ELECT 0.47-50V
C808	87-010-401-080		CAP, ELECT 1-50V
C809	87-010-401-080		CAP, ELECT 1-50V
C810	87-010-263-040		CAP,E 100-10
C810	87-010-196-080		CHIP CAPACITOR,0.1-25
C811	87-010-403-080		CAP, ELECT 3.3-50V
C811	87-010-545-040		CAP,E 0.22-50 SME
C812	87-010-403-080		CAP, ELECT 3.3-50V
C812	87-010-405-040		CAP,E 10-50
C814	87-010-197-080		CAP, CHIP 0.01 DM
C815	87-010-403-080		CAP, ELECT 3.3-50V
C816	87-010-403-080		CAP, ELECT 3.3-50V
C819	87-010-179-080		CAP,CHIP S B1200P
C820	87-010-179-080		CAP,CHIP S B1200P
C821	87-010-405-080		CAP, ELECT 10-50V
C823	87-010-177-080		C-CAP,S 820P-50 SL
C824	87-010-405-080		CAP, ELECT 10-50V
C825	87-010-596-080		CAP, S 0.047-16
C842	87-010-197-080		CAP, CHIP 0.01 DM
C843	87-010-190-080		S CHIP F 0.01
C844	87-010-197-080		CAP, CHIP 0.01 DM
C845	87-010-190-080		S CHIP F 0.01
C846	87-010-190-080		S CHIP F 0.01
C847	87-010-190-080		S CHIP F 0.01
C848	87-010-190-080		S CHIP F 0.01
C849	87-010-190-080		S CHIP F 0.01
C850	87-010-260-080		CAP, ELECT 47-25V
C851	87-010-197-080		CAP, CHIP 0.01 DM
C852	87-010-197-080		CAP, CHIP 0.01 DM
C853	87-010-197-080		CAP, CHIP 0.01 DM
C858	87-010-196-080		CHIP CAPACITOR,0.1-25
C859	87-010-196-080		CHIP CAPACITOR,0.1-25
C860	87-010-197-080		CAP, CHIP 0.01 DM
C959	87-010-196-080		CHIP CAPACITOR,0.1-25
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C961	87-010-152-080		C-CAP,S 8P-50 CH
C963	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C971	87-010-381-080		CAP, ELECT 330-16V
C972	87-010-404-080		CAP, ELECT 4.7-50V
C973	87-010-197-080		CAP, CHIP 0.01 DM
C974	87-010-197-080		CAP, CHIP 0.01 DM
C979	87-010-322-080		C-CAP,S 100P-50 CH
C981	87-010-260-080		CAP, ELECT 47-25V
C982	87-010-196-080		CHIP CAPACITOR,0.1-25
C983	87-010-197-080		CAP, CHIP 0.01 DM
C984	87-010-197-080		CAP, CHIP 0.01 DM
C987	87-010-197-080		CAP, CHIP 0.01 DM
C991	87-010-312-080		C-CAP,S 15P-50 CH
C992	87-010-312-080		C-CAP,S 15P-50 CH
C993	87-010-178-080		CHIP CAP 1000P
C995	87-010-178-080		CHIP CAP 1000P
C997	87-010-196-080		CHIP CAPACITOR,0.1-25
C998	87-010-260-080		CAP, ELECT 47-25V
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F
CF831	87-008-261-010		FILTER, SFE10.7MA5-A
CF832	87-008-261-010		FILTER, SFE10.7MA5-A
CN1	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3
CN91	87-A60-109-010		CONN,2P V S2M-2W
CN101	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3
CN301	87-A60-620-010		CONN,3P V 2MM JMT
CN351	87-A60-625-010		CONN,8P V 2MM JMT
CN601	87-099-719-010		CONN,30P TYK-B(X)
CN602	87-099-194-010		CONN,6P 6216V
CNA1	8A-NF8-653-010		CONN ASSY,9P TID-A(480)
CNA2	8A-NF6-630-010		CONN ASSY,3P (VM) ANF-6
FC602	85-NF5-617-010		CABLE,FFC 6P-1.25

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
FFE831	A8-8ZA-190-030		8ZA-1 FEUNM
J101	87-A60-483-010		JACK,DIA6.3 BLK ST W/S KM
J102	87-A60-238-010		TERMINAL,SP 4P (MSC)
J601	87-A60-885-010		JACK,PIN 6P R/W MSC
J831	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02
L101	87-003-383-010		COIL,1UH-S
L102	87-003-383-010		COIL,1UH-S
L301	87-A50-049-010		COIL,TRAP 85K(COI)
L302	87-A50-049-010		COIL,TRAP 85K(COI)
L351	87-007-342-010		COIL,OSC 85K BIAS
L801	87-A50-540-010		COIL,FM DET(TOK)
L802	87-A91-551-010		FLTR,PCFJZH-450 L(TOK)
L811	87-005-847-080		COIL,2.2UH(CECS)
L821	87-A50-209-010		COIL,1POLE MPX(MIT)
L822	87-A50-209-010		COIL,1POLE MPX(MIT)
L832	87-005-847-080		COIL,2.2UH K CECS
L951	8A-NF8-667-010		COIL,AM PACK 4(TOK)
R161	87-A00-441-050		RES,270-1/2W J RP
R162	87-A00-441-050		RES,270-1/2W J RP
R163	87-A00-441-050		RES,270-1/2W J RP
R164	87-A00-441-050		RES,270-1/2W J RP
R790	87-010-197-080		CAP, CHIP 0.01 DM
R991	87-010-322-080		C-CAP,S 100P-50 CH
R993	87-010-322-080		C-CAP,S 100P-50 CH
R995	87-010-322-080		C-CAP,S 100P-50 CH
SFR351	87-A90-433-080		SFR,50K H NVZ6TLTA
SFR352	87-A90-433-080		SFR,50K H NVZ6TLTA
WH1	87-A90-510-010		HLDR,WIRE 2.5-9P
X991	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309

FRONT C.B

C101	87-010-190-080		S CHIP F 0.01
C102	87-010-322-080		C-CAP,S 100P-50 CH
C103	87-010-312-080		C-CAP,S 15P-50 CH
C104	87-012-157-080		C-CAP,S 330P-50 CH
C105	87-010-406-040		CAP,E 22-50 SME
C106	87-010-493-040		CAP,E 0.47-50 GAS
C107	87-A10-189-040		CAP,E 220-10
C108	87-A10-189-040		CAP,E 220-10
C109	87-010-196-080		CHIP CAPACITOR,0.1-25
C110	87-010-178-080		CHIP CAP 1000P
C112	87-012-368-080		C-CAP,S 0.1-50 F
C113	87-012-369-080		C-CAP,S 0.047-50F
C114	87-010-196-080		CHIP CAPACITOR,0.1-25
C115	87-010-196-080		CHIP CAPACITOR,0.1-25
C116	87-010-196-080		CHIP CAPACITOR,0.1-25
C118	87-012-145-080		CAP, CHIP S 270P CH
C119	87-010-498-040		CAP,E 10-16 GAS
C120	87-010-196-080		CHIP CAPACITOR,0.1-25
C121	87-010-196-080		CHIP CAPACITOR,0.1-25
C122	87-010-196-080		CHIP CAPACITOR,0.1-25
C123	87-012-393-080		C-CAP,S 0.22-16 R K
C181	87-010-180-080		C-CER 1500P
C182	87-010-178-080		CHIP CAP 1000P
C183	87-012-156-080		C-CAP,S 220P-50 CH
C202	87-012-157-080		C-CAP,S 330P-50 CH
C203	87-012-157-080		C-CAP,S 330P-50 CH
C204	87-012-157-080		C-CAP,S 330P-50 CH
C205	87-012-157-080		C-CAP,S 330P-50 CH
C206	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C211	87-012-140-080		CAP 470P
C221	87-010-421-040		CAP,E 4.7-50 5L
C222	87-010-404-040		CAP,E 4.7-50 SME
C223	87-010-408-040		CAP,E 47-50 SME
C224	87-012-369-080		C-CAP,S 0.047-50F
C382	87-010-320-080		CHIP CAP 68P
C383	87-010-196-080		CHIP CAPACITOR,0.1-25
C384	87-010-196-080		CHIP CAPACITOR,0.1-25
C385	87-010-196-080		CHIP CAPACITOR,0.1-25
C386	87-010-196-080		CHIP CAPACITOR,0.1-25
C387	87-010-196-080		CHIP CAPACITOR,0.1-25
C392	87-010-320-080		CHIP CAP 68P
C402	87-010-196-080		CHIP CAPACITOR,0.1-25
C403	87-010-322-080		C-CAP,S 100P-50 CH
C404	87-010-322-080		C-CAP,S 100P-50 CH
C405	87-010-322-080		C-CAP,S 100P-50 CH
C406	87-010-322-080		C-CAP,S 100P-50 CH
C407	87-010-322-080		C-CAP,S 100P-50 CH
C408	87-010-322-080		C-CAP,S 100P-50 CH
C409	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C501	87-010-544-040		CAP,E 0.1-50 SME
C502	87-010-196-080		CHIP CAPACITOR,0.1-25
C503	87-010-544-040		CAP,E 0.1-50 SME
C504	87-012-156-080		C-CAP,S 220P-50 CH
C505	87-010-178-080		CHIP CAP 1000P
C521	87-010-178-080		CHIP CAP 1000P
C601	87-010-186-080		CAP,CHIP 4700P
C603	87-010-320-080		CHIP CAP 68P
C604	87-010-546-040		CAP,E 0.33-50
C606	87-010-112-040		CAP,E 100-16
C607	87-010-196-080		CHIP CAPACITOR,0.1-25
C609	87-010-196-080		CHIP CAPACITOR,0.1-25
C621	87-010-178-080		CHIP CAP 1000P
C652	87-010-183-080		C-CAP,S 2700P-50 B
C653	87-010-213-080		C-CAP,S 0.015-50 B
C701	87-010-260-040		CAP,E 47-25 SME
C802	87-010-168-080		CAP, CHIP 150P
C804	87-010-187-080		CAP CHIP S5600P
C808	87-010-196-080		CHIP CAPACITOR,0.1-25
C809	87-012-155-080		C-CAP 180P-50CH
CN102	8A-NF7-605-010		CONN ASSY,4P V 80MM
CN104	87-099-017-010		CONN, 15P 6216 V
CN901	87-A60-138-010		CONN,13P V FE
CON101	87-099-720-010		CONN,30P TYK-B(P)
FB601	87-008-372-080		FILTER, EMI BL OIRNI
FB801	87-008-372-080		FILTER, EMI BL OIRNI
FC104	88-915-111-110		FF-CABLE,15P 1.25
FC901	85-NF5-618-010		CABLE,FFC 13P-1.25
FL201	8A-NF7-601-010		FL,BJ754GNK
J601	87-A61-242-010		JACK,6.3 BLK MONO W/SW V KM
L101	87-A50-333-010		COIL,OSC 9.43MHZ
L801	87-A50-093-010		COIL,CLOCK 5.76MHZ
L802	87-005-847-080		COIL,2.2UH(CECS)
LED401	87-017-733-080		LED,SEL1250SM
LED402	87-017-733-080		LED,SEL1250SM
LED403	87-017-733-080		LED,SEL1250SM
LED404	87-017-733-080		LED,SEL1250SM
LED405	87-017-733-080		LED,SEL1250SM
LED416	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED417	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED418	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED419	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED420	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED421	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED422	87-A40-317-080		LED,SLR-342VCT31 RED
LED423	87-A40-317-080		LED,SLR-342VCT31 RED
LED424	87-A40-317-080		LED,SLR-342VCT31 RED
LED440	87-A40-563-010		LED,SEL6515C-LF62 PGRN
LED441	87-A40-563-010		LED,SEL6515C-LF62 PGRN
LED442	87-A40-563-010		LED,SEL6515C-LF62 PGRN
LED443	87-A40-563-010		LED,SEL6515C-LF62 PGRN
LED444	87-A40-563-010		LED,SEL6215S-LF62 PGRN
LED445	87-A40-563-010		LED,SEL6215S-LF62 PGRN
LED454	87-A40-678-010		LED,SELU1E10CXM BLUE-DEF
LED455	87-A40-678-010		LED,SELU1E10CXM BLUE-DEF
LED499	87-017-733-080		LED,SEL1250SM
R211	87-012-156-080		C-CAP,S 220P-50 J CH GRM
R212	87-012-156-080		C-CAP,S 220P-50 J CH GRM
S101	87-A91-709-010		SW,RTRY 1-2-24 RE012103 PV

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
S102	87-A91-710-010		SW,RTRY 1-2-12 RE012103 PV
S301	87-A91-024-180		SW,TACT KSH0611BT
S302	87-A91-024-180		SW,TACT KSH0611BT
S303	87-A91-024-180		SW,TACT KSH0611BT
S304	87-A91-024-180		SW,TACT KSH0611BT
S305	87-A91-024-180		SW,TACT KSH0611BT
S306	87-A91-024-180		SW,TACT KSH0611BT
S314	87-A91-024-180		SW,TACT KSH0611BT
S321	87-A91-024-180		SW,TACT KSH0611BT
S322	87-A91-024-180		SW,TACT KSH0611BT
S323	87-A91-024-180		SW,TACT KSH0611BT
S324	87-A91-024-180		SW,TACT KSH0611BT
S325	87-A91-024-180		SW,TACT KSH0611BT
S326	87-A91-024-180		SW,TACT KSH0611BT
S327	87-A91-024-180		SW,TACT KSH0611BT
S328	87-A91-024-180		SW,TACT KSH0611BT
S329	87-A91-024-180		SW,TACT KSH0611BT
S330	87-A91-024-180		SW,TACT KSH0611BT
S331	87-A91-024-180		SW,TACT KSH0611BT
S332	87-A91-024-180		SW,TACT KSH0611BT
S333	87-A91-024-180		SW,TACT KSH0611BT
S334	87-A91-024-180		SW,TACT KSH0611BT
S341	87-A91-024-180		SW,TACT KSH0611BT
S342	87-A91-024-180		SW,TACT KSH0611BT
S343	87-A91-024-180		SW,TACT KSH0611BT
S344	87-A91-024-180		SW,TACT KSH0611BT
S345	87-A91-024-180		SW,TACT KSH0611BT
S346	87-A91-024-180		SW,TACT KSH0611BT
S347	87-A91-024-180		SW,TACT KSH0611BT
S349	87-A91-024-180		SW,TACT KSH0611BT
S350	87-A91-024-180		SW,TACT KSH0611BT
S351	87-A91-024-180		SW,TACT KSH0611BT
S352	87-A91-024-180		SW,TACT KSH0611BT
S353	87-A91-024-180		SW,TACT KSH0611BT
S354	87-A91-024-180		SW,TACT KSH0611BT
S355	87-A91-024-180		SW,TACT KSH0611BT
VR501	86-NFA-607-010		VR,RTRY 10K15AX1 1 V XV0121PVN

AMP C.B

C101	87-010-183-080		C-CAP,S 2700P-50 B
C102	87-010-183-080		C-CAP,S 2700P-50 B
C103	87-010-545-080		CAP, ELECT 0.22-50V
C104	87-010-545-080		CAP, ELECT 0.22-50V
C107	87-010-405-080		CAP, ELECT 10-50V
C108	87-010-405-080		CAP, ELECT 10-50V
C113	87-010-405-080		CAP, ELECT 10-50V
C114	87-010-405-080		CAP, ELECT 10-50V
C115	87-010-866-080		CAP, ELECT 10-63
C116	87-010-866-080		CAP, ELECT 10-63
C119	87-010-197-080		CAP, CHIP 0.01 DM
C120	87-010-197-080		CAP, CHIP 0.01 DM
C133	87-010-190-080		C-CAP,S 0.01-50 Z F C2012
C153	87-010-188-080		C-CAP,S 6800P-50 K B C2012
C201	87-A10-300-080		CAP,M 0.027-50 J
C202	87-A10-300-080		CAP,M 0.027-50 J
C203	87-A10-300-080		CAP,M 0.027-50 J
C204	87-A10-300-080		CAP,M 0.027-50 J
C205	87-010-180-080		C-CER 1500P
C206	87-010-180-080		C-CER 1500P
C207	87-010-401-080		CAP, ELECT 1-50V
C208	87-010-401-080		CAP, ELECT 1-50V
C209	87-010-187-080		CAP CHIP S5600P
C210	87-010-187-080		CAP CHIP S5600P
C211	87-010-402-080		CAP, ELECT 2.2-50V
C212	87-010-402-080		CAP, ELECT 2.2-50V
C215	87-012-140-080		C-CAP,S 470P-50 J CH
C216	87-012-140-080		C-CAP,S 470P-50 J CH
C217	87-010-403-080		CAP, ELECT 3.3-50V
C218	87-010-403-080		CAP, ELECT 3.3-50V
C221	87-010-405-080		CAP, ELECT 10-50V
C222	87-010-405-080		CAP, ELECT 10-50V
C223	87-010-197-080		CAP, CHIP 0.01 DM
C224	87-010-197-080		CAP, CHIP 0.01 DM
C251	87-010-196-080		CHIP CAPACITOR,0.1-25
C252	87-010-196-080		CHIP CAPACITOR,0.1-25
C253	87-010-196-080		CHIP CAPACITOR,0.1-25
C254	87-010-196-080		CHIP CAPACITOR,0.1-25
C255	87-010-190-080		S CHIP F 0.01
C256	87-010-190-080		S CHIP F 0.01
C257	87-010-190-080		S CHIP F 0.01
C258	87-010-190-080		S CHIP F 0.01
C401	87-010-260-080		CAP, ELECT 47-25
CN101	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3
CN102	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3
CNA101	8A-NF8-656-010		CONN ASSY,5P TID-A 400
J201	87-A61-148-010		JACK,PIN 4P R/W BLUE
L251	87-003-383-010		COIL,1UH-S
L252	87-003-383-010		COIL,1UH-S
R129	87-A00-262-080		RES,M/F 0.15-2W J
R130	87-A00-262-080		RES,M/F 0.15-2W J
R231	87-A00-258-080		RES,M/F 0.22-1W J
R232	87-A00-258-080		RES,M/F 0.22-1W J
WH101	87-A90-459-010		HLDR,WIRE 2.5-5P

PT C.B

C1	87-010-387-080		CAP,E 470-25 SME
C4	87-A11-148-080		CAP,TC U 0.1-50 Z F
C5	87-A11-148-080		CAP,TC U 0.1-50 Z F
C6	87-A10-627-000		CAP,E 2200-50 M SMG
C7	87-A10-627-000		CAP,E 2200-50 M SMG
C8	87-A11-148-080		CAP,TC U 0.1-50 Z F
C9	87-A11-148-080		CAP,TC U 0.1-50 Z F
C10	87-A11-148-080		CAP,TC U 0.1-50 Z F
C11	87-A11-148-080		CAP,TC U 0.1-50 Z F
C12	87-016-657-090		CAP,E 3300-71
C13	87-016-657-090		CAP,E 3300-71
C16	87-010-403-080		CAP, ELECT 3.3-50V
CN1	87-A61-110-010		CONN,9P V TID-A
CN2	87-A61-108-010		CONN,5P V TID-A
⚠ PT1	8A-NF7-622-010		PT,ANF-7 H
⚠ PT2	8A-NF8-673-010		PT,SUB ANF-8 (H) KAMI
⚠ RY1	87-A91-281-010		RELAY,AC DC12V OSA-SS-212DM5
⚠ S1	87-A90-165-010		SW,SL 1-2-3 SWS2301
⚠ T1	87-A60-317-010		TERMINAL, 1P MSC
⚠ T2	87-A60-317-010		TERMINAL, 1P MSC

VM C.B

CNA3	87-049-919-010		CONN,3P V WHT EH

DECK C.B

W1	82-ZM3-601-010		RBN,CORD,4P-75
CON105	87-099-756-010		CONN,15P 9604 S F
SFR1	87-024-581-010		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-410		SOL ASSY,27
SOL2	82-ZM1-618-410		SOL ASSY,27
SW1	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW2	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW3	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW4	87-036-110-010		SW,MICRO SPPB62
SW5	87-036-110-010		SW,MICRO SPPB62
SW6	87-036-110-010		SW,MICRO SPPB62
SW8	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW9	87-A90-248-010		SW,MICRO ESE11SH2CXQ

HEAD-1 C.B

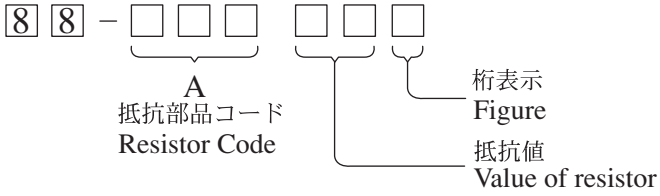
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
	85-ZM3-602-010		PWB,FLEX A

HEAD-2 C.B

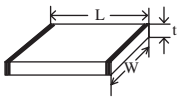
	85-ZM3-602-010		PWB,FLEX A
CON351	87-NF6-616-010		CONN ASSY,8P-RPB

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

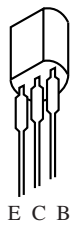
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

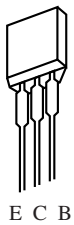
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION

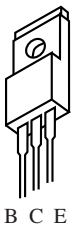


KTA1266GR
KTC3198GR
KTC3199GR
CSA952K

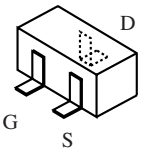
CD1585BC
CSC4115BC



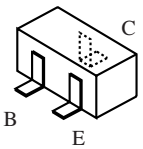
DTC114ES



2SB1370



2SK2158
2SJ461-T1



2SA1235F
2SC2714
2SC3052F
CMBT5551
CMBT5401
CSD1306E

RT1N141C
RT1P141C
RT1P144C
RT1P441C

32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

A MAIN C.B

FROM H HEAD-2 C.B CON351

FROM G HEAD-1 C.B CON301

J831 ANTENNA

AM LOOP

FM 75Ω

TO CD MECHANISM 6ZG-1 ZN4BM

FC602 CN602

J601 VIDEO/AUX

LINE OUT

J102 SPEAKERS, LOW FREQ

TO PT C.B CN001 CNA001

CN001 CN101 TO B FRONT C.B

J101 PHONES

CN301 CN601

SH301

IC303

CN091 FAN 1

CON102 FROM C AMP C.B

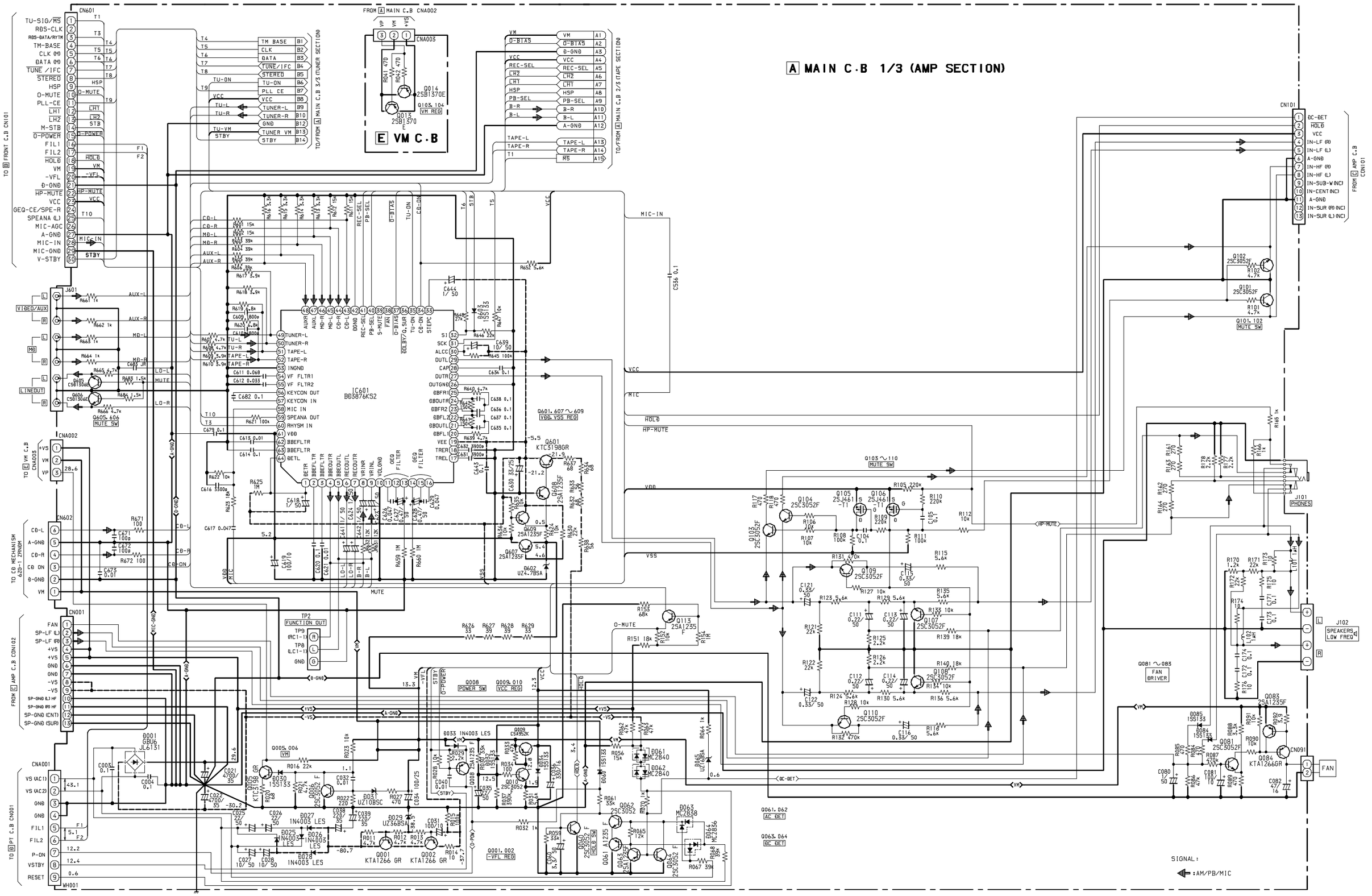
CON101 FROM C AMP C.B

TO E VM C.B CNA003

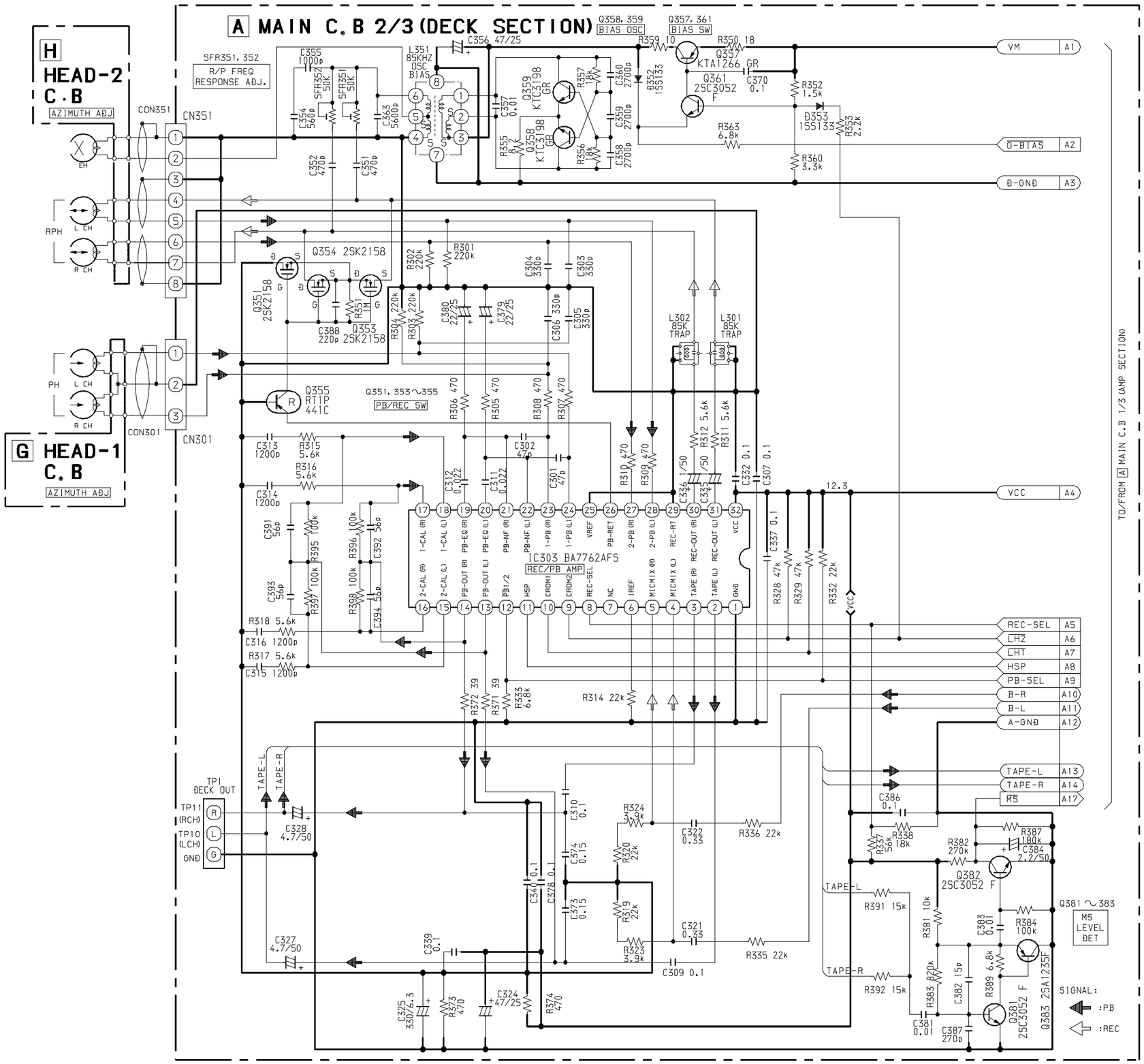
FROM A MAIN C.B CNA002

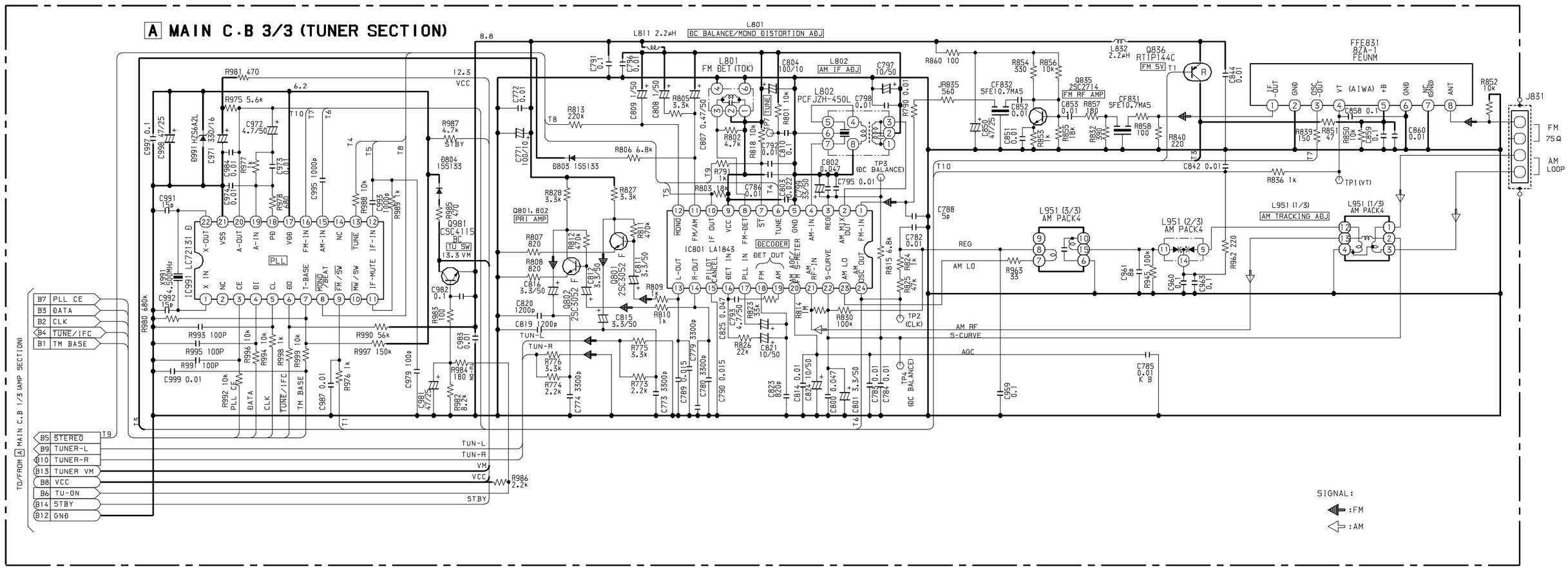
E VM C.B

SCHEMATIC DIAGRAM - 1 (MAIN 1 / 3: AMP/ VM)



SCHEMATIC DIAGRAM - 2 (MAIN 2 / 3: DECK / HEAD-1 / HEAD-2)




A MAIN C.B 3/3 (TUNER SECTION)
TO/FROM A MAIN C.B 1/3 (AMP SECTION)
B7 PLL CE
B3 DATA
B2 CLK
B4 TUNE/IFC
B1 TM BASE
B5 STEREO
B9 TUNER-L
B10 TUNER-R
B13 TUNER VM
B8 VCC
B6 TU-ON
B14 STBY
B12 GND
TUN-L
TUN-R
VM
VCC
STBY
L801 FM DET (TOK)
L802 PCF JZH-450L
L811 2.2µH
L832 2.2µH
L801 DC BALANCE/MONO DISTORTION ADJ
L802 AM IF ADJ
IC991 LC72131 D
PLL
IC801 LA1843
DECODER
Q801,802 PRI AMP
Q835 2SC2714 FM RF AMP
Q836 RT1P144C FM 5V
Q981 CSC4115 BC TU SW 13.3 VM
L951 (3/3) AM PACK4
L951 (2/3) AM PACK4
L951 (1/3) AM PACK4
L951 (1/3) AM TRACKING ADJ
FFE831 8ZA-1 FEUNM
J831
FM 75Ω
AM LOOP
TP1 (VT)
TP2 (CLK)
TP3 (DC BALANCE)
TP4 (DC BALANCE)
REG
AM LO
AM RF S-CURVE
AGC
SIGNAL:
:FM
:AM

32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

B FRONT C.B

TO CD MECHANISM 6ZG-1 ZRNDM
FC901
13 11 9 7 5 3 1

FL201 (DISPLAY)

IC251 (SENSOR)

LED499 STANDBY

FROM A MAIN C.B
CN601
CN102(2/2)
CON101

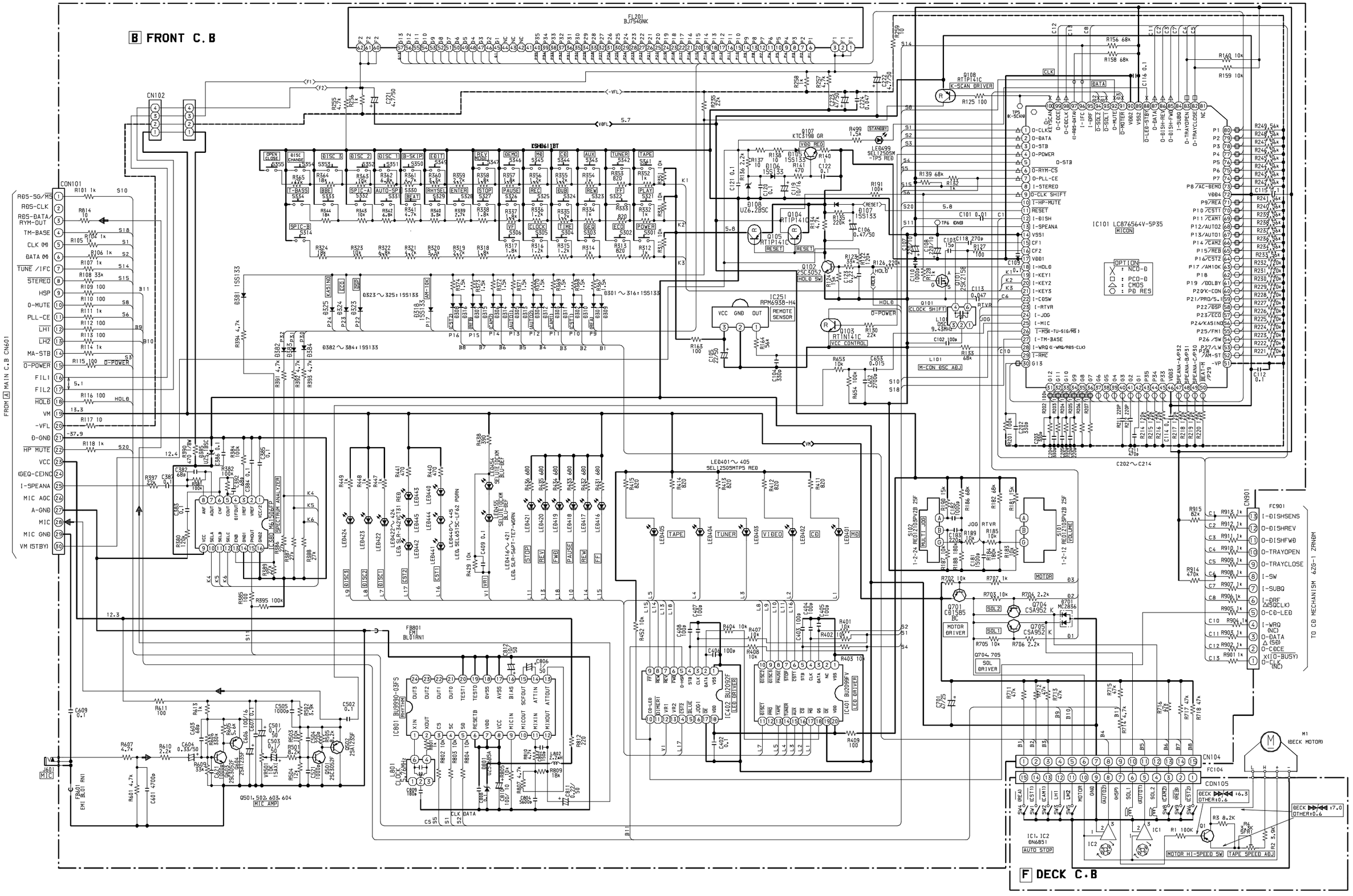
S333 BBE
S334 T-BASS
S314 SPICE B
S332 SPICE A
S331 AUTO SPICE /FILL IN
S330 BEAT ON/OFF
S329 RHYTHM
S101 LED454, LED455 VOLUME

S352, LED423 DISC 2
S355 OPEN/CLOSE
S351, LED422 DISC 1
S350 CD BLANK SKIP
S353, LED424 DISC 3
S354 DISC CHANGE

J601 MIC

LED442, LED443, LED445 CST2
S328 ENTER
FC104
TO F DECK C.B
S371 MULTI JOG
S303 GEQ
S304 TIMER
S305 CLOCK
S306 KARAOKE
S322, LED416 ▶▶/▶▶ UP
S323, LED417 ◀◀/◀◀ DOWN
S325 ●REC/REC MUTE
S324 SYNC DUB NORM/HIGH
LED440, LED441, LED444 CST1
S349 CD EDIT/CHECK
S347, LED420 REV MODE (DECK2)
S346 DEMO
S345 LED401 MD
S344 LED402 CD
S343, LED403 VIDEO/AUX
S342, LED404 TUNER/ BAND
S341, LED405 TAPE DECK 1/2
S302 ECO
S301 ⏻ POWER STANDBY/ON
S321, LED419 ◀▶DIRECTION/PRESET
S327, LED421 ■CLEAR
S326, LED418 ❚❚SET

SCHEMATIC DIAGRAM - 4 (FRONT/ DECK)


B FRONT C.B
F DECK C.B
CN102
CON101
IC101 LC876564V-5P35
MICON
IC251 RPM6938-H4
REMOTE SENSOR
IC801 BU9990-03FS
IC402 BU2092F
IC401 BU2099FV
LED DRIVER
Q108 RTP141C
K-SCAN DRIVER
Q107 KTC3198 GR
Q104 RTP141C
Q105 RTP141C
Q102 2SC3052
Q103 RT1N141C
Q101 2SK2158
CLOCK SHIFT
D108 UZ6.2BSC
D105 1SS133
D106 1SS133
D107 1SS133
IC1 IC2 BN6851
AUTO STOP
Q701 CD1585 BC
MOTOR DRIVER
Q704 705 SOL DRIVER
Q501 502 603 604
MIC AMP
CN104
CDN105
FC104
CN901
FC901
TO CD MECHANISM (ZG-1 ZRNBM)
M1 (DECK MOTOR)
OPTION
: NCO-D
: PCO-D
: CMOS
: PD RES
FROM A MAIN C.B CN601
J601 MIC
FL201 BJ7540NK
LED401~405 SEL1250SMTPS RED
LED499 SEL1250SM TPS RED
LED424 SEL1250SM TPS GRN
LED423 SEL1250SM TPS GRN
LED422 SEL1250SM TPS GRN
LED421 SEL1250SM TPS GRN
LED420 SEL1250SM TPS GRN
LED419 SEL1250SM TPS GRN
LED418 SEL1250SM TPS GRN
LED417 SEL1250SM TPS GRN
LED416 SEL1250SM TPS GRN
LED405 TAPE
LED404 TUNER
LED403 VIDEO
LED402 CD
LED401 MD
LED455 SEL1250SM BLU-DEP
LED456 SEL1250SM BLU-DEP
LED457 SEL1250SM BLU-DEP
LED458 SEL1250SM BLU-DEP
LED459 SEL1250SM BLU-DEP
LED460 SEL1250SM BLU-DEP
LED461 SEL1250SM BLU-DEP
LED462 SEL1250SM BLU-DEP
LED463 SEL1250SM BLU-DEP
LED464 SEL1250SM BLU-DEP
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LED466 SEL1250SM BLU-DEP
LED467 SEL1250SM BLU-DEP
LED468 SEL1250SM BLU-DEP
LED469 SEL1250SM BLU-DEP
LED470 SEL1250SM BLU-DEP
LED471 SEL1250SM BLU-DEP
LED472 SEL1250SM BLU-DEP
LED473 SEL1250SM BLU-DEP
LED474 SEL1250SM BLU-DEP
LED475 SEL1250SM BLU-DEP
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LED495 SEL1250SM BLU-DEP
LED496 SEL1250SM BLU-DEP
LED497 SEL1250SM BLU-DEP
LED498 SEL1250SM BLU-DEP
S101 1-2-12 RE0109MV2B 25F VOLUME
S102 1-2-24 RE0109MV2B 25F MULTI JOG
SPECTRUM ANALYZER
M61506FP
OPEN/CLOSE
DISC CHANGE
DISC 3
DISC 2
DISC 1
B-SKIP
EDIT
REV MODE
DEMO
MD
CD
AUX
TUNER
TAPE
T-BASS
BBE
SPIC-A
AUTO-SP
BEAT
RHYSEL
ENTER
STOP
PAUSE
REC
DUB
REW
FF
PLAY
SPIC-B
VP
CLOCK
TIME
DEW
ECO
POWER
K1
K2
K3
K4
K5
K6
STANDBY
VDD REG
HOLD SW
RESET
CLK
DATA
K-SCAN
KEYSCAN
D-CLKCK
D-DATA
D-STB
D-POWER
D-RYM-CS
D-PLL-CE
I-STEREO
D-CLK SHIFT
I-HP-MUTE
RESET
I-DISH
I-SPEANA
VSS1
CF1
CF2
VDD1
I-HOLD
I-KEY1
I-KEY2
I-KEY3
I-CDSW
I-RTVR
I-JOG
I-MIC
I-MSW-TU-SIG/RDS
I-TM-BASE
I-WRQ (I-WRQ/RDS-CLK)
I-RMC
G15
VDD4
P9/REA
P10/CST1
P11/CAM1
P12/AUTO2
P13/AUTO1
P14/CAM2
P15/REB
P16/CST2
P17/AM10K
P18
P19/DOLBY
P20/K-CON
P21/PRO/S.I
P22/DSP
P23/ECO
P24/KASINO
P25/FM1
P26/SW
P27/LW
P28/AM-ST
VP
BEAT-M
SPEANA-A/P32
SPEANA-B/P31
SPEANA-C/P30
VDD3
P33
P34
P35
P36
P37
P38
P39
P40
P41
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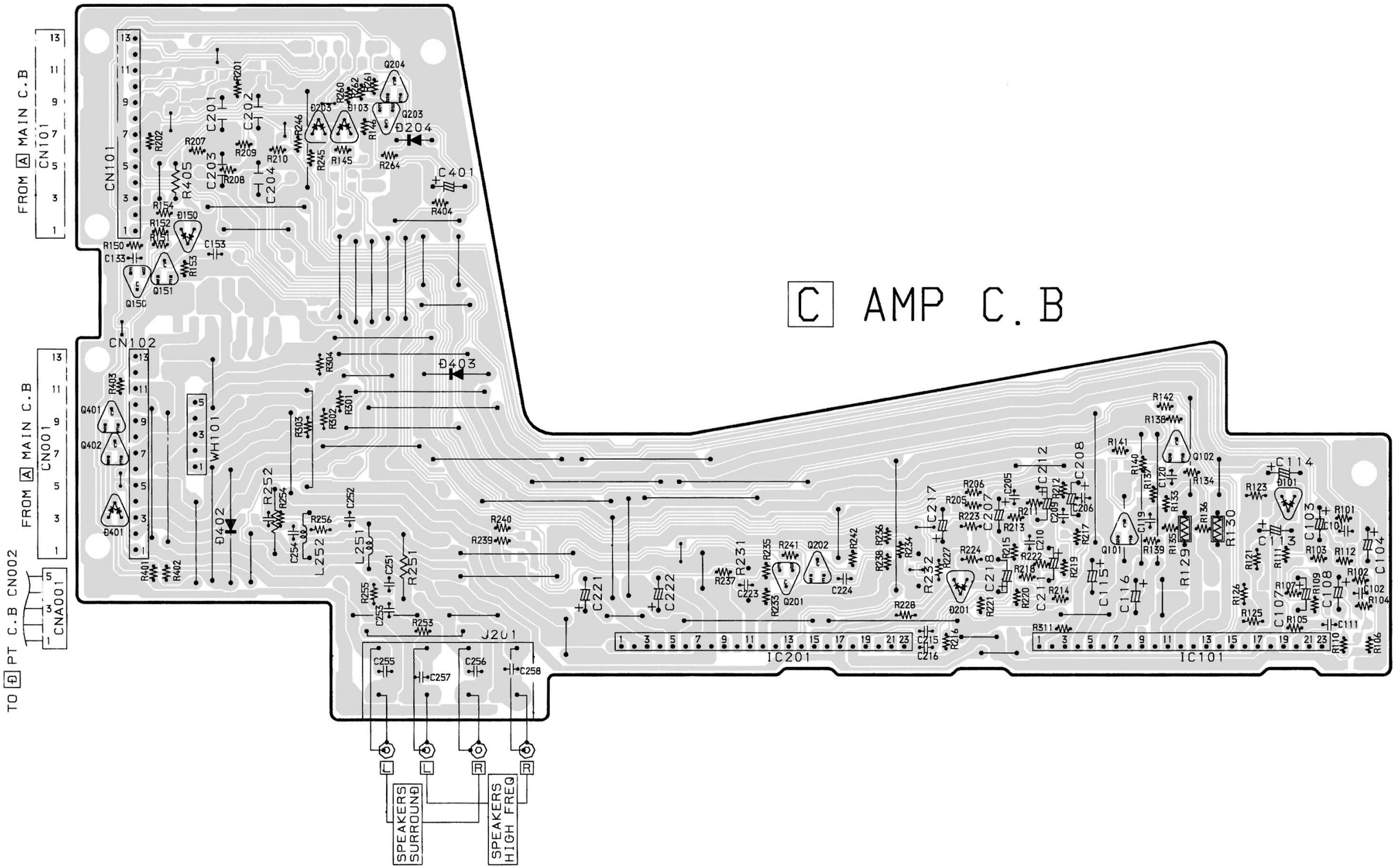
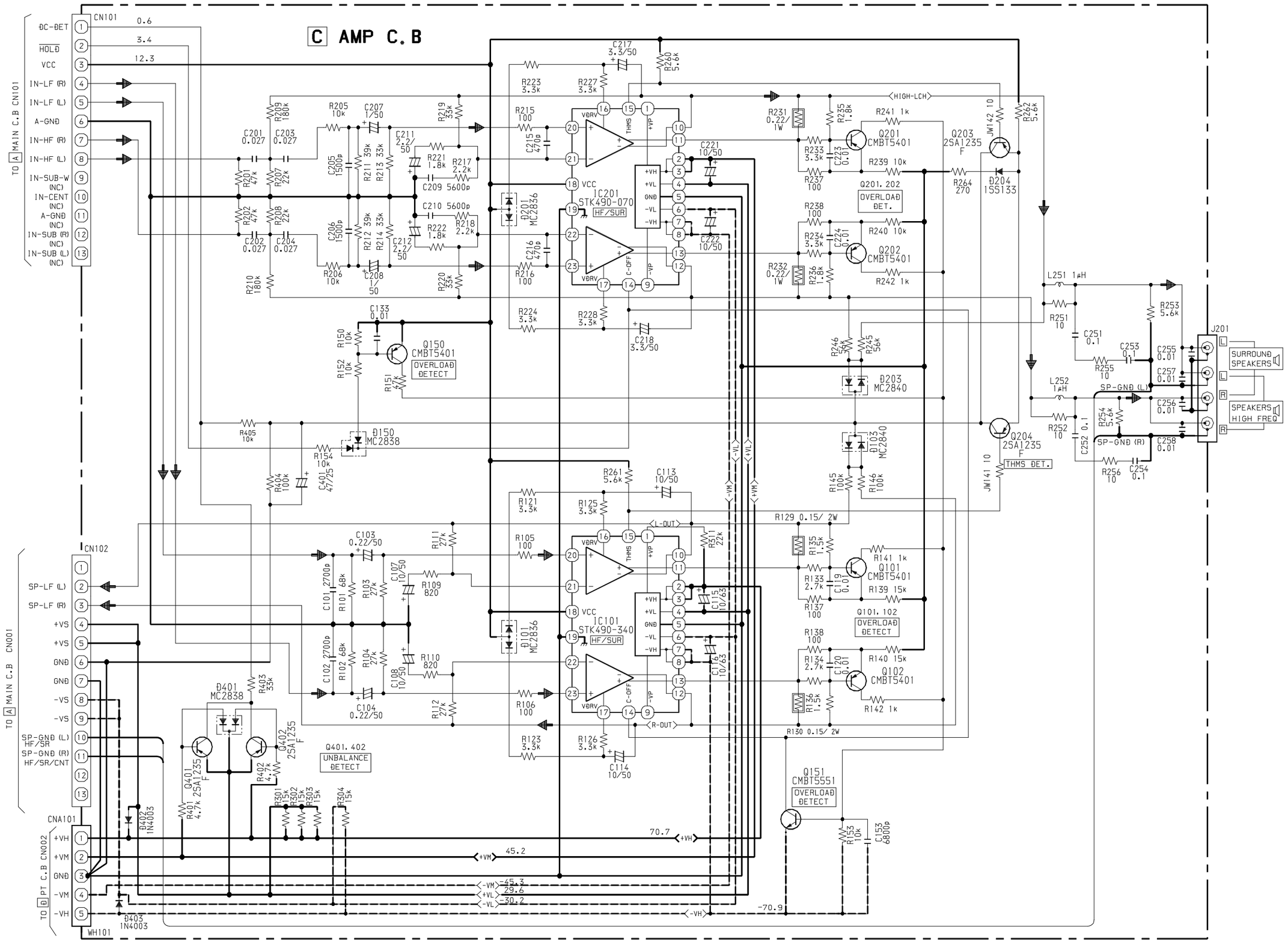
P69
P70
P71
P72
P73
P74
P75
P76
P77
P78
P79
P80
VDD4
VSS2
D-LED-STBY
D-DATA
D-BISH-REC
D-BISH-FWD
I-SUBQ
D-TRAYOPEN
D-TRAYCLOSE
NC
TP6 K-SCAN
TP5 KEYSCAN
D-CLKCK
D-CDCE
I-RMS-DATA
I-IFC
I-BMF
D-SDL2
D-SDL1
D-MUTE
D-MOTER
VDD2
VSS2
D-DATA
D-BISH-REC
D-BISH-FWD
I-SUBQ
D-TRAYOPEN
D-TRAYCLOSE
NC
I-DISHSENS
O-DISHREV
O-DISHFWD
O-TRAYOPEN
O-TRAYCLOSE
I-SW
I-SUBQ
I-DRF (XRSCLK)
O-CD-LED
I-WRQ (NC)
O-DATA (SD)
O-CDCE
X(I-O-BUSY)
O-CLK (NC)
RDS-SG/MS
RDS-CLK
RDS-DATA/RYM-DOUT
TM-BASE
CLK (M)
DATA (M)
TUNE /IFC
STEREO
HSP
D-MUTE
PLL-CE
LH1
LH2
MA-STB
D-POWER
FIL1
FIL2
HOLD
VM
-VFL
D-GND
HP MUTE
VCC
(EQ-CE)NC
I-SPEANA
MIC AGC
A-GND
MIC
MIC GND
VM (STBY)
MOTOR
SOL2
SOL1
VSP
GND
LH2
LH1
SW1 (CST1)
SW2 (CAM1)
SW3 (AUTO1)
SW4 (READ)
SW5 (CST2)
SW6 (CAM2)
SW7 (AUTO2)
SW8 (REB)
DECK ±6.3 OTHER±0.6
DECK ±7.0 OTHER±0.6
MOTOR HI-SPEED SW
TAPE SPEED ADJ
CLK DATA
FB801 EMI BL01RN1
FB802 EMI BL01RN1
FB803 EMI BL01RN1
FB804 EMI BL01RN1
FB805 EMI BL01RN1
FB806 EMI BL01RN1
FB807 EMI BL01RN1
FB808 EMI BL01RN1
FB809 EMI BL01RN1
FB810 EMI BL01RN1
FB811 EMI BL01RN1
FB812 EMI BL01RN1
FB813 EMI BL01RN1


C AMP C.B
FROM A MAIN C.B
CN101
TO B PT C.B CN002
CNA001
CN102
FROM A MAIN C.B
CN001
WH101
J201
IC201
IC101
SPEAKERS SURROUND
SPEAKERS HIGH FREQ

SCHEMATIC DIAGRAM - 5 (AMP)



32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

Đ PT C.B

WH001
TO A MAIN C.B
1 3 5 7 9
CNA001

CN001
CN002
WH101
FROM C AMP C.B
CNA101

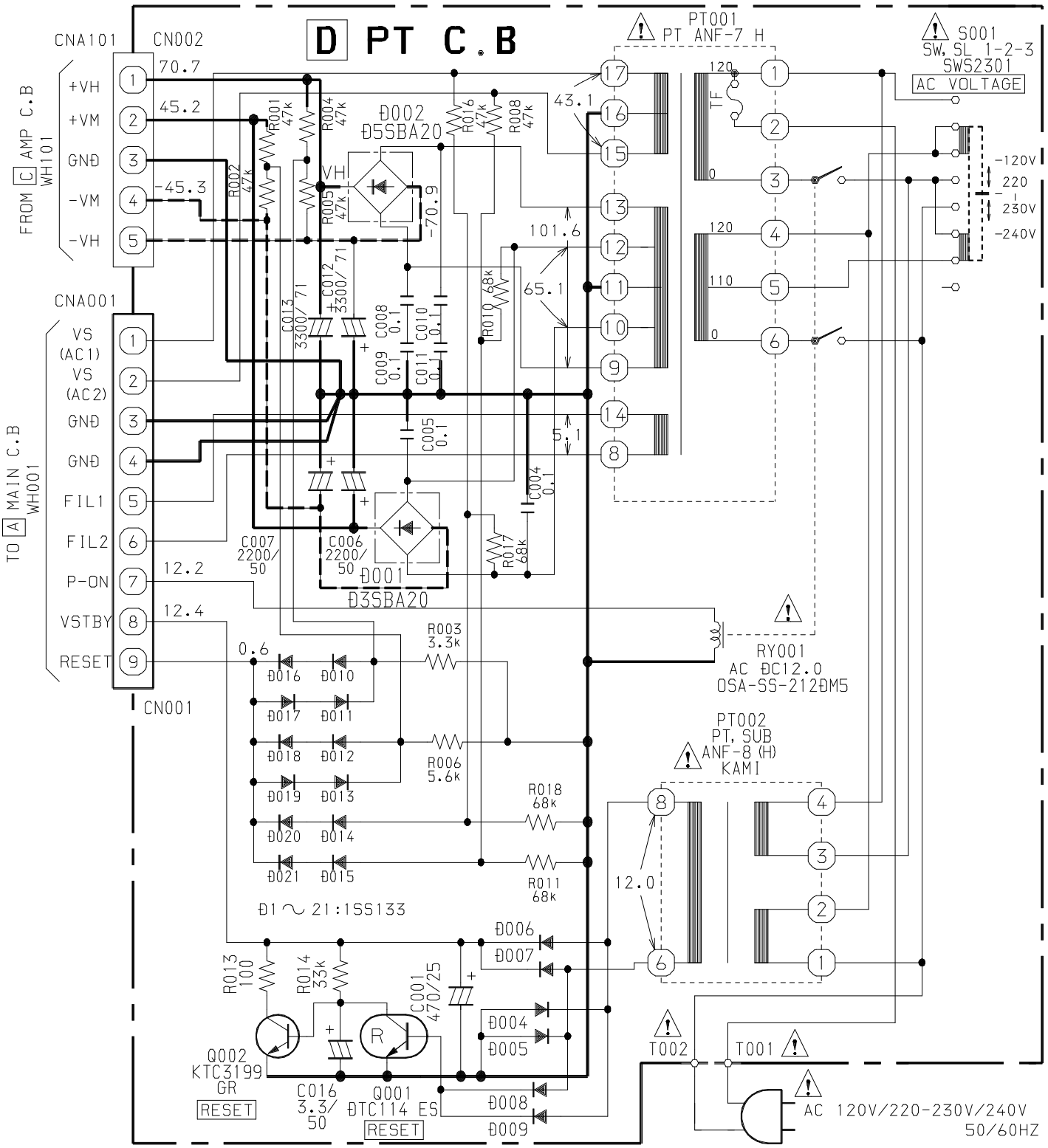
Đ001
Đ002
Đ004 Đ005 Đ006 Đ007 Đ008 Đ009
Đ010 Đ011 Đ012 Đ013 Đ014 Đ015 Đ016 Đ017 Đ018 Đ019 Đ020 Đ021
R001 R002 R003 R004 R005
R008 R010 R011 R012 R013 R014 R016 R017 R018
C001 C004 C005 C006 C007 C008 C009 C010 C011 C012 C013 C016
Q001 Q002

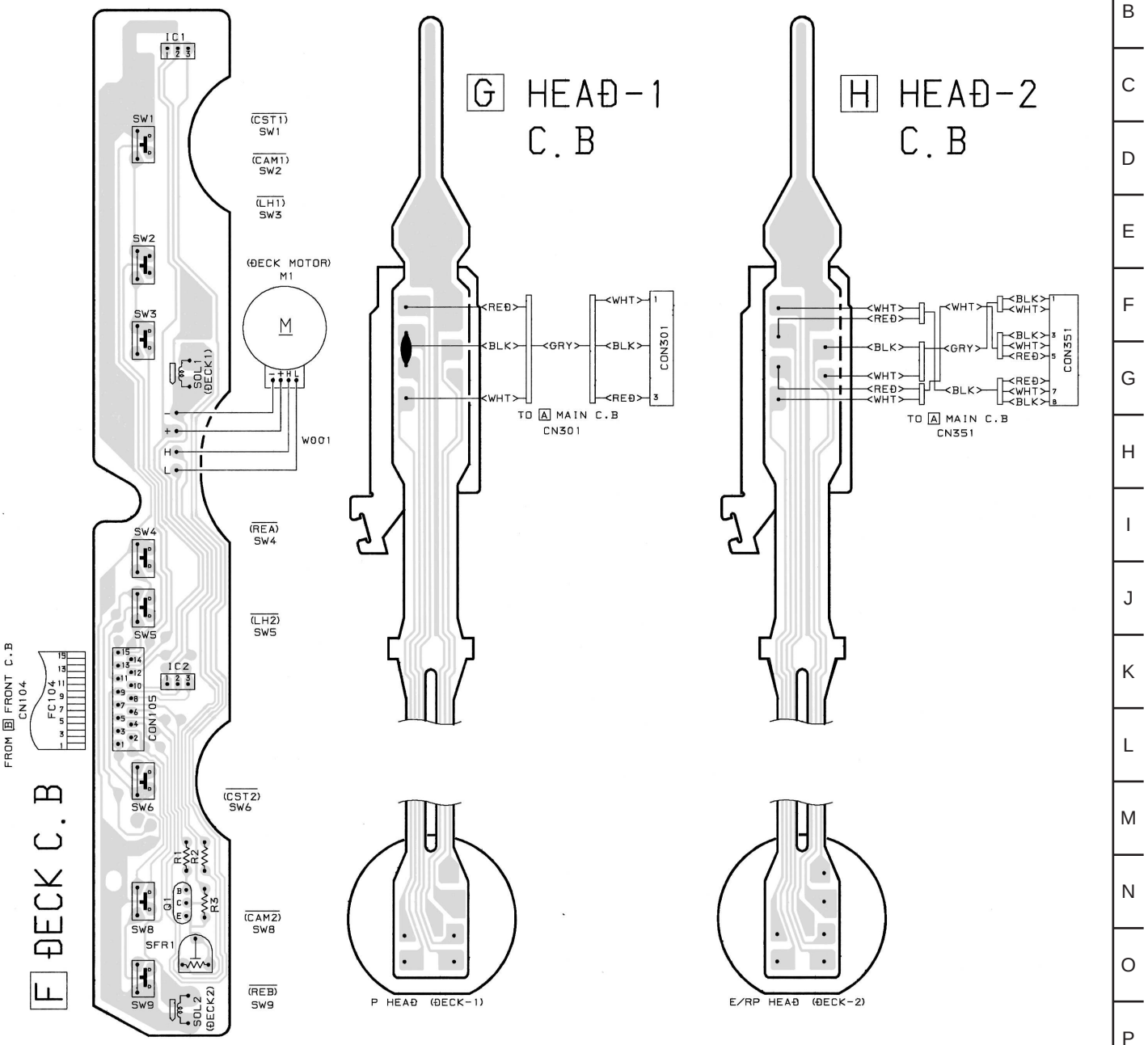
PT001
PT002
TF

T001
T002
AC 120V/220-230V/240V
50/60HZ
RY001

S001
AC VOLTAGE
120V
220~230V
240V

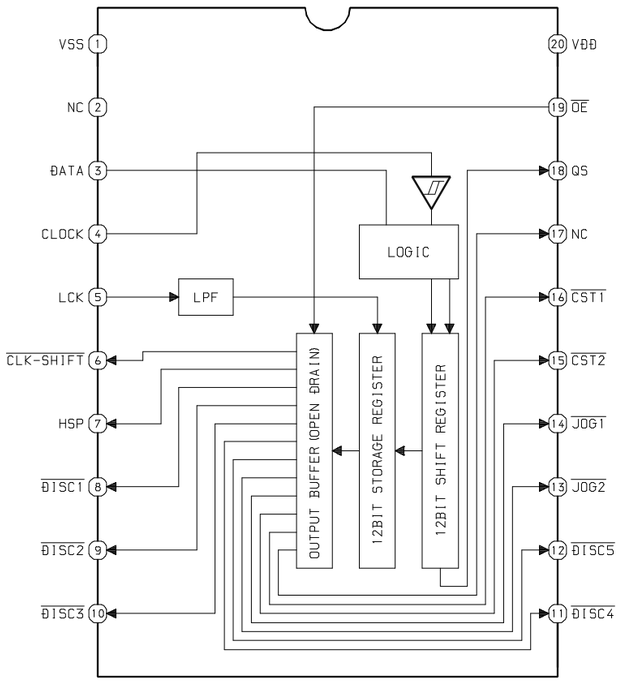
SCHEMATIC DIAGRAM-6 (PT)



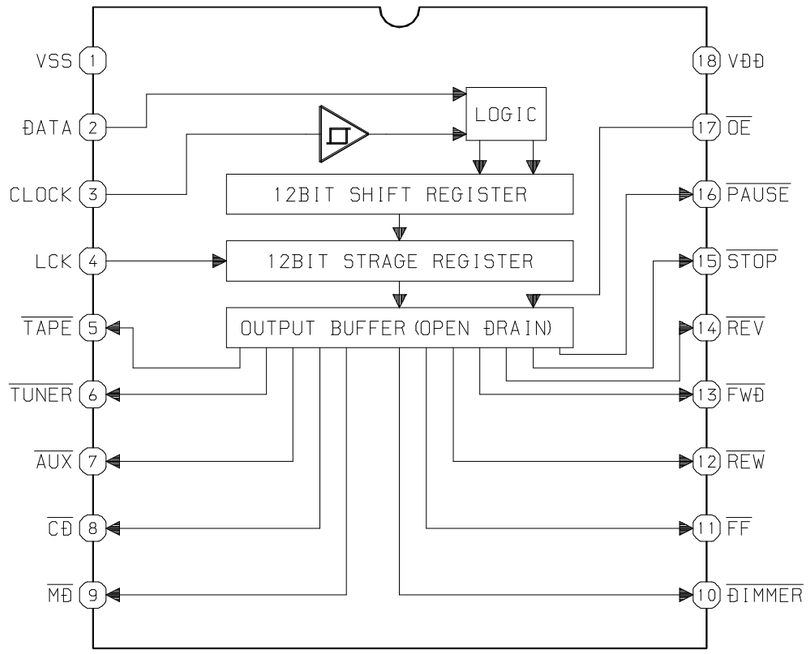

F DECK C.B
IC1
SW1
(CST1) SW1
(CAM1) SW2
(LH1) SW3
SW2
SW3
(DECK MOTOR) M1
M
SOL1 (DECK1)
+H L
W001
SW4
(REA) SW4
SW5
(LH2) SW5
IC2
CON105
FROM B FRONT C.B CN104
FC104
SW6
(CST2) SW6
R1
R2
R3
Q1
SW8
(CAM2) SW8
SFR1
SW9
(REB) SW9
SOL2 (DECK2)
G HEAD-1 C.B
RED
BLK
WHT
GRY
CON301
TO A MAIN C.B CN301
P HEAD (DECK-1)
H HEAD-2 C.B
CN351
TO A MAIN C.B CN351
E/RP HEAD (DECK-2)

IC BLOCK DIAGRAM

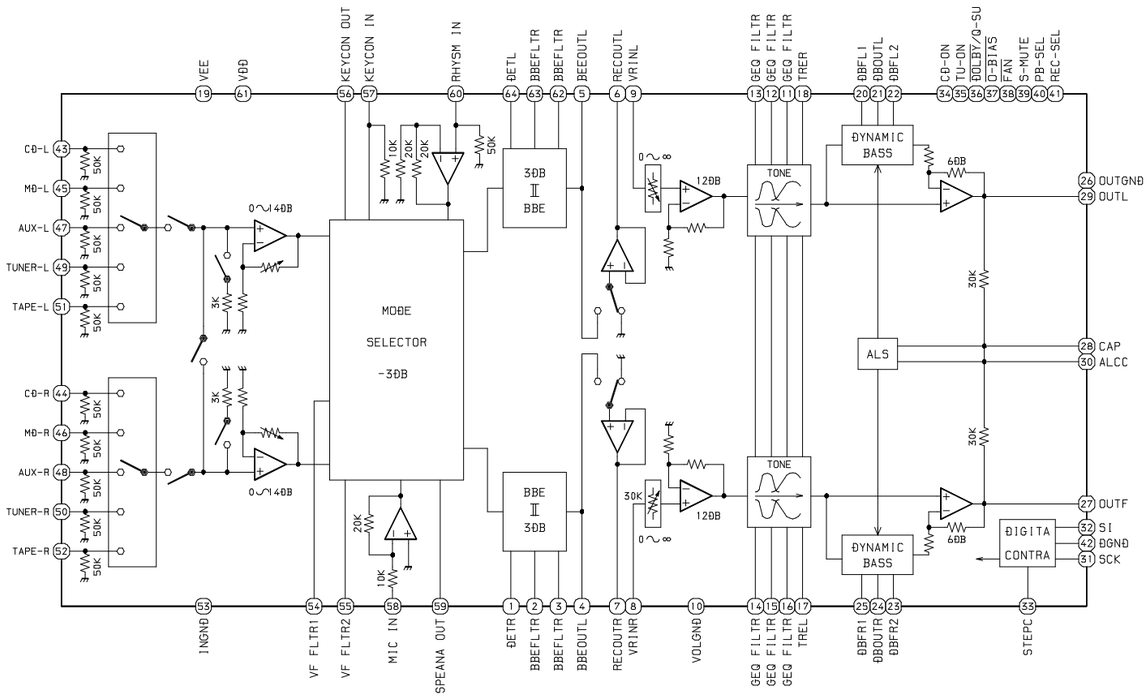
IC,BU2099FV



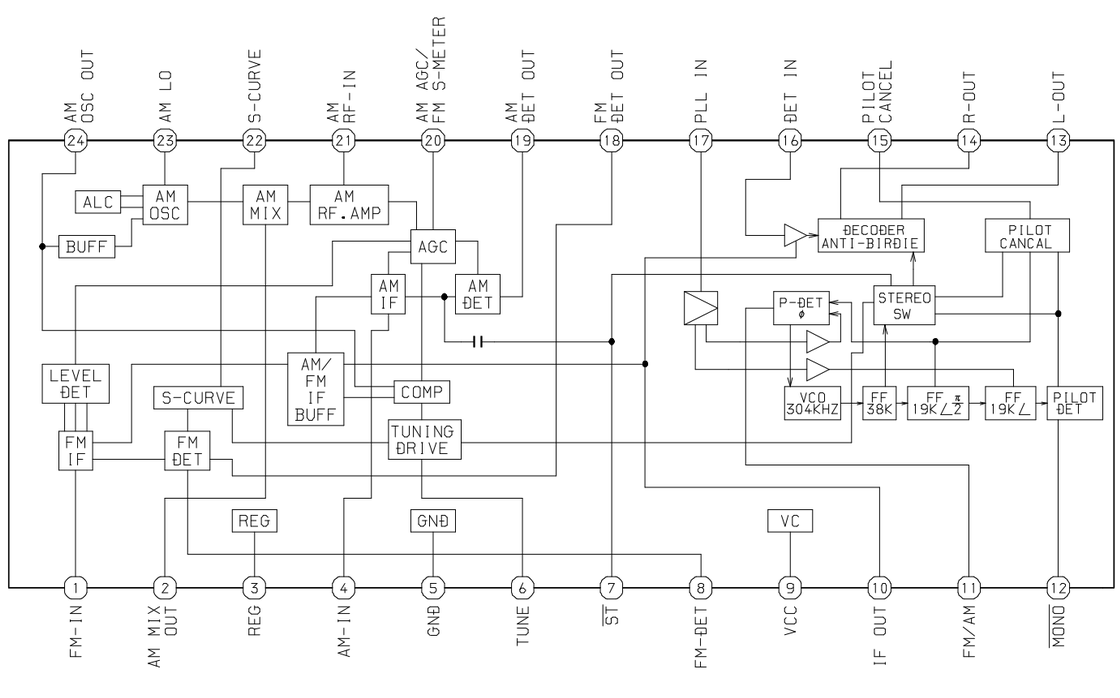
IC,BU2092F



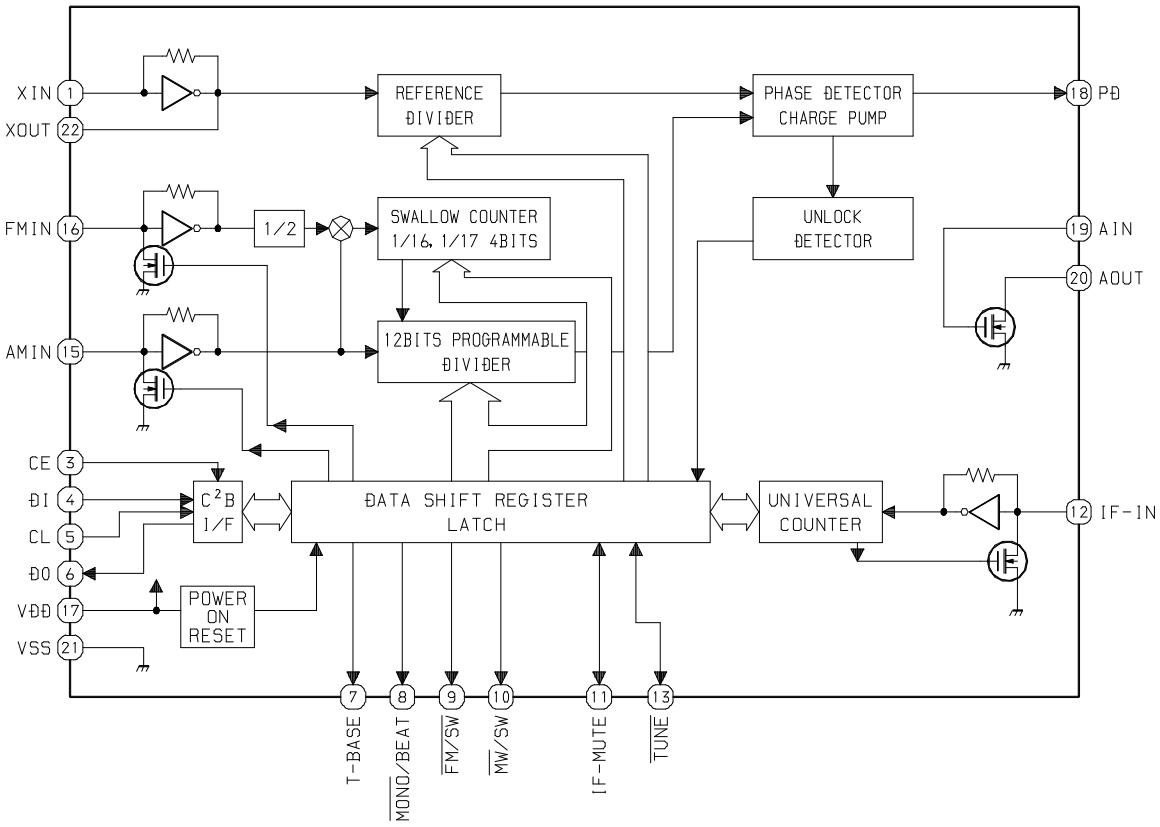
IC, BD3876KS2



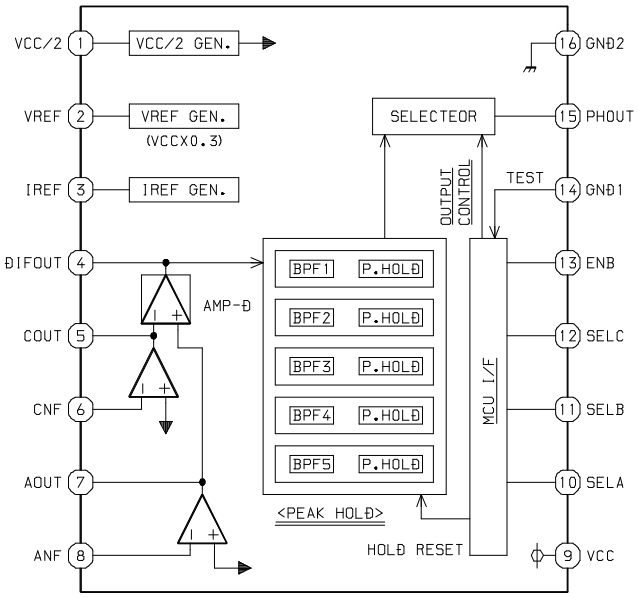
IC, LA1843



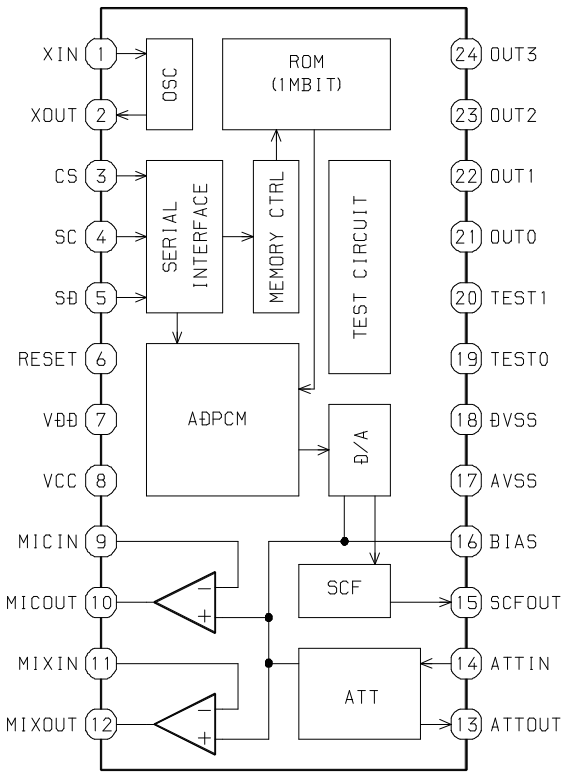
IC, LC72131D



IC, M61506FP

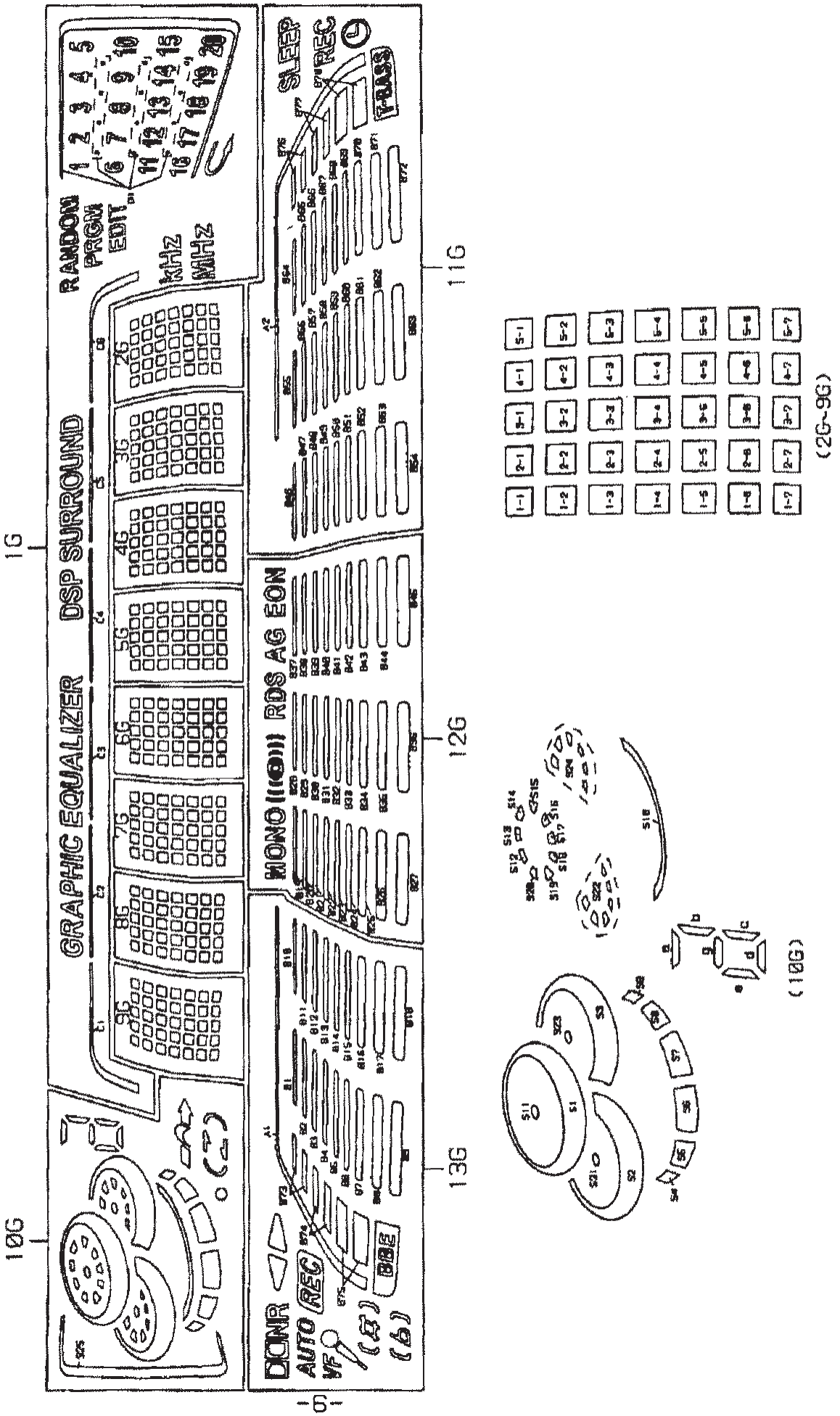


IC,BU9990-03FS



FL (BJ754 GNK)GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT



ANODE CONNECTION

	13G	12G	11G	10G	9G~2G	1G
P1		B27	B54	b	1-1	DSP SURROUND
P2		B36	B63	c	2-1	GRAPHIC EQUALIZER
P3		B45	B72	a, g, d	3-1	C6
P4		B26	B53	e	4-1	C5
P5		B35	B62	S1	5-1	C4
P6		B44	B71	S12	1-2	C3
P7		B25	B52	S13	2-2	C2
P8		B34	B61	S20	3-2	C1
P9		B43	B70	S14	4-2	RANDOM
P10	A1	B24	B51	S11	5-2	PRGM
P11		B33	B60	S19	1-3	EDIT
P12	B75	B42	B69	S15	2-3	
P13	B74	B23	B50	S18	3-3	kHz
P14	B73	B32	B59	S16	4-3	MHz
P15	B9	B41	B68	S17	5-3	16
P16	B18	B22	B49	S3	1-4	11
P17	B8	B31	B58	S24	2-4	6
P18	B17	B40	B67	S23	3-4	1
P19	B7	B21	B48	S2	4-4	17
P20	B16	B30	B57	S22	5-4	12
P21	B6	B39	B66	S21	1-5	7
P22	B15	B20	B47	S10	2-5	2
P23	B5	B29	B56	S9	3-5	18
P24	B14	B38	B65	S8	4-5	13
P25	B4	B19	B46	S7	5-5	8
P26	B13	B28	B55	S6	1-6	3
P27	B3	B37	B64	S5	2-6	19
P28	B12	MONO		S4	3-6	14
P29	B2		A2		4-6	9
P30	B11	RDS	B78		5-6	4
P31	B1	AG	B77		1-7	20
P32	B10	EON	B76		2-7	15
P33	-	-	SLEEP		3-7	10
P34	-	-	REC	S25	4-7	5
P35	-	-		-	5-7	D1

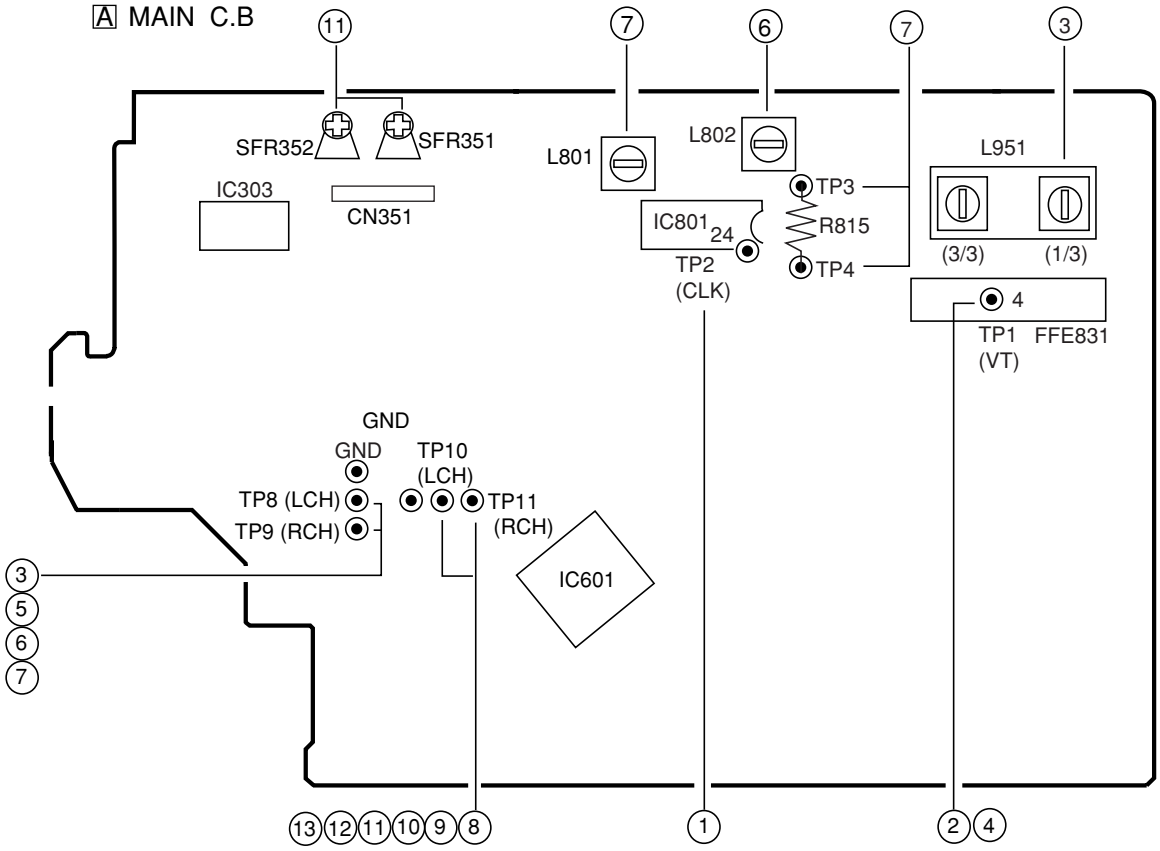
IC DESCRIPTION

IC, LC876564W-5P35

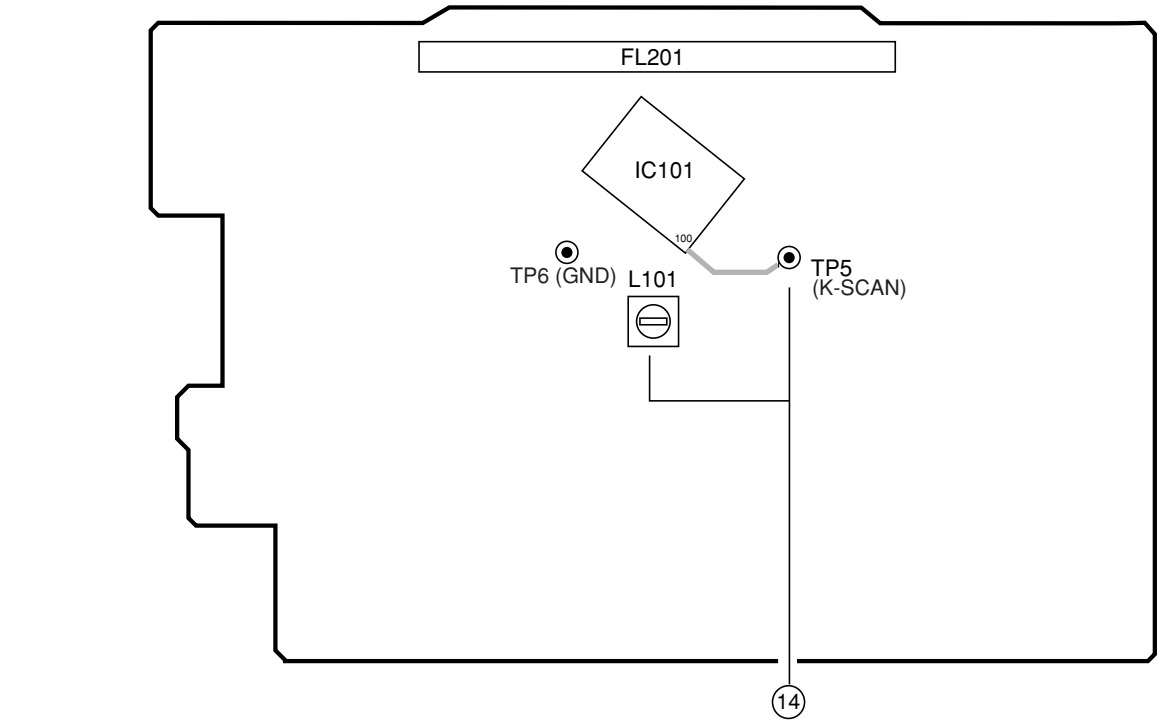
Pin No.	Pin Name	I/O	Description
1	O-CLK	O	Common serial CLOCK output.
2	O-DATA	O	Common Serial DATA output.
3	O-STB	O	Common serial STROBE output.
4	O-POWER	O	System power ON/OFF output.
5	O-STB	O	Strobe output for shift register.
6	$\overline{\text{O-RYM-CS}}$	O	Chip select output for rhythm IC.
7	O-PLL-CE	O	Chip enable output for PLL.
8	I-STEREO	I	Stereo detect input.
9	$\overline{\text{O-CLK SHIFT}}$	O	Tuner clock shift output (active L).
10	$\overline{\text{I-HP-MUTE}}$	I	Headphones connect detect input.
11	$\overline{\text{RESET}}$	I	Reset input.
12	I-DISH	I	CD turn table photo sensor input.
13	I-SPEANA	I	Spectrum analyger level AD input.
14	VSS1	–	Connected to GND.
15	CF 1	–	9.43MHz oscillator circuit.
16	CF2		
17	VDD1	–	Power supply.
18	I-HOLD	I	Power supply voltage detect A/D input.
19 ~ 21	KEY 1 ~ 3	I	KEY 1 ~ 3 A/D input.
22	I-CDSW	I	CD mechanism SW A/D input.
23	I-RTVR	I	Rotary encorder A/D input for VR.
24	I-JOG	I	Rotary encorder A/D input for MULTI JOG.
25	I-MIC	I	MIC input for auto vocal fader.
26	I-$\overline{\text{MS}}$	I	DECK MS detect input
27	I-TM-BASE	I	Timebase clock (8Hz) input.
28	I-WRQ	I	CD WRQ input.
29	$\overline{\text{I-RMC}}$	I	Remote control signal input. Active: "L".
30 ~ 42	G13 ~ G1	O	FL grid G13 ~ G1 output.
43 ~ 45	P35 ~ P33	O	FL segment P35 ~ P33 output.
46	VDD3	–	Power supply.
47	P32/SPEANA A	O	FL segment P32 output / Spectrum analyger band select output (A) .
48	P31/SPEANA B	O	FL segment P31 output / Spectrum analyger band select output (B) .
49	P30/SPEANA C	O	FL segment P30 output / Spectrum analyger band select output (C).
50	P29/$\overline{\text{BEAT-M}}$	O/I	FL segment P29 output / Beat master less diode input (not used).
51	-VP	–	Connected to -VFL.
52	P28/AM-ST	O/I	FL segment P28 output / AM-STEREO diode input (not used).
53	P27/LW	O/I	FL segment P27 output / LW diode input (not used).
54	P26/SW	O/I	FL segment P26 output / SW diode input (not used).
55	P25/FM1	O/I	FL segment P25 output / FM1 diode input (not used).
56	P24/KASINO	O/I	FL segment P24 output / Initial KASINO DEMO diode input.
57	P23/ECO	O/I	FL segment P23 output / Initial ECO mode less diode input.

Pin No.	Pin Name	I/O	Description
58	P22/$\overline{\text{DSP}}$	O/I	FL segment P22 output / DSP less diode input.
59	P21/PRO/5.1	O/I	FL segment P21 output / PRO-LOGIC 5.1CH diode input (not used).
60	P20	O	FL segment P20 output.
61	P19/DOBLY	O/I	FL segment P19 output / Deck DOBLY diode input (not used).
62	P18	O	FL segment P18 output.
63	P17/AM10K	O/I	FL segment P17 output / AM10 change diode input (not used).
64	P16/$\overline{\text{CST2}}$	O/I	FL segment P16 output / Deck 2 cassette detect sw input.
65	P15/REB	O/I	FL segment P15 output / Deck side B record permission sw input.
66	P14/CAM2	O/I	FL segment P14 output / Deck 2 CAM sw input.
67	P13/AUTO1	O/I	FL segment P13 output / Deck 1 auto stop input.
68	P12/AUTO2	O/I	FL segment P12 output / Deck 2 auto stop input.
69	P11/$\overline{\text{CAM1}}$	O/I	FL segment P11 output / Deck 1 CAM sw input.
70	P10/CST1	O/I	FL segment P10 output / Deck 1 cassette detect sw input.
71	P9/$\overline{\text{REA}}$	O/I	FL segment P9 output / Deck side A record permission sw input.
72	VDD4	-	Power supply.
73	P8/$\overline{\text{AC-DEMO}}$	O/I	FL segment P8 output / Demo less diode input.
74 ~ 80	P7 ~ 1	O	FL segment output (P7 ~ 1).
81	NC	-	Not connected.
82	O-TRAY CLOSE	O	CD tray close output.
83	O-TRAY OPEN	O	CD tray open output.
84	I-SUBQ	O	CD SUBQ detect input.
85	O-DISH-FWD	O	CD turn table forward revolution output.
86	O-DISH-REV	O	CD turn table reverse revolution output.
87	O-DATA	O	CD data output.
88	$\overline{\text{O-LED-STBY}}$	O	STBY LED on output (STBY LED on during O-POWER OFF).
89	VSS2	-	Connected to GND.
90	VDD2	-	Power supply.
91	$\overline{\text{O-MOTOR}}$	O	DECK motor output.
92	O-MUTE	O	System mute ON/OFF output.
93	$\overline{\text{O-SOL1}}$	O	DECK1 plunger $\overline{\text{ON}}$/OFF output.
94	$\overline{\text{O-SOL2}}$	O	DECK2 plunger $\overline{\text{ON}}$/OFF output.
95	I-DRF	I	CD DRF input.
96	I-IFC	I	Tuner IFC input.
97	NC	-	Not connected.
98	O-CD CLK	O	CD CLK output.
99	O-CD-CE	O	CD CD output.
100	O-KSCAN	O	Key scan timing output.

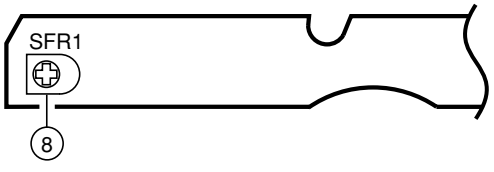
Ⓐ MAIN C.B



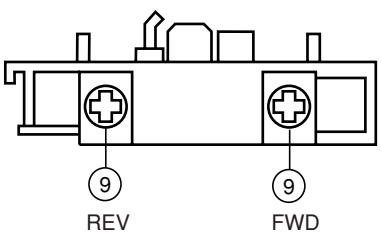
Ⓑ FRONT C.B



Ⓕ DECK C.B



DECK-1 P,DECK-2 R/P/E HEAD



< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2 (CLK)
   Method : Set to AM 1710kHz and check that the test point is 2160kHz ± 45Hz.

2. AM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to AM 1710kHz and AM 530kHz and check that the test point is less than 8.5V(1710kHz) and more than 0.6V(530kHz)

3. AM Tracking Adjustment
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location :
   L951(1/3)..... 999kHz
   Method : Set to AM 999kHz and adjust L951(1/3) so that the test point is max.

4. FM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to FM 108.0MHz and check that the test point is less than 8.0V.
   Set to FM 87.5MHz and check that the test point is more than 0.5V.

5. FM Tracking Check
   Settings : • Test point : TP8(Lch), TP9(Rch)
   Method : Set to FM 98.0MHz and check that the test point is less than 9.0dBμV.

6. AM IF Adjustment
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location : L802
   • Input level : Variable
   Method : Adjust L802 so that the output becomes max.

7. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC Balance)
   TP8(Lch), TP9(Rch) (Distortion)
   • Adjustment location : L801
   • Input level : 60dBμV
   Method : Set to FM 98.0MHz and adjust L801 so that the voltage between TP3 and TP4 becomes 0V ± 0.3V. Next, check that the distortion is minimum.

< DECK SECTION >

8. Tape Speed Adjustment (DECK 2)
   Settings : • Test tape : TTA–100(3kHz)
   • Test point : TP10(Lch), TP11(Rch)
   • Adjustment location : SFR1
   Method : Play back the test tape and adjust SFR1 so that the frequency counter reads 3000Hz ± 5Hz(FWD) and ± 45Hz(REV) with respect to forward speed.

9. Head Azimuth Adjustment (DECK 1, DECK 2)
   Settings : • Test tape : TTA–300 (315/10kHz)
   • Test point : TP10(Lch), TP11(Rch)
   • Adjustment location : Head azimuth adjustment screw
   Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.

10. PB Frequency Response Check (DECK 1, DECK 2)
    Settings : • Test tape : TTA–300 (315/10kHz)
    • Test point : TP10(Lch), TP11(Rch)
    Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is within 0 ± 3dB.

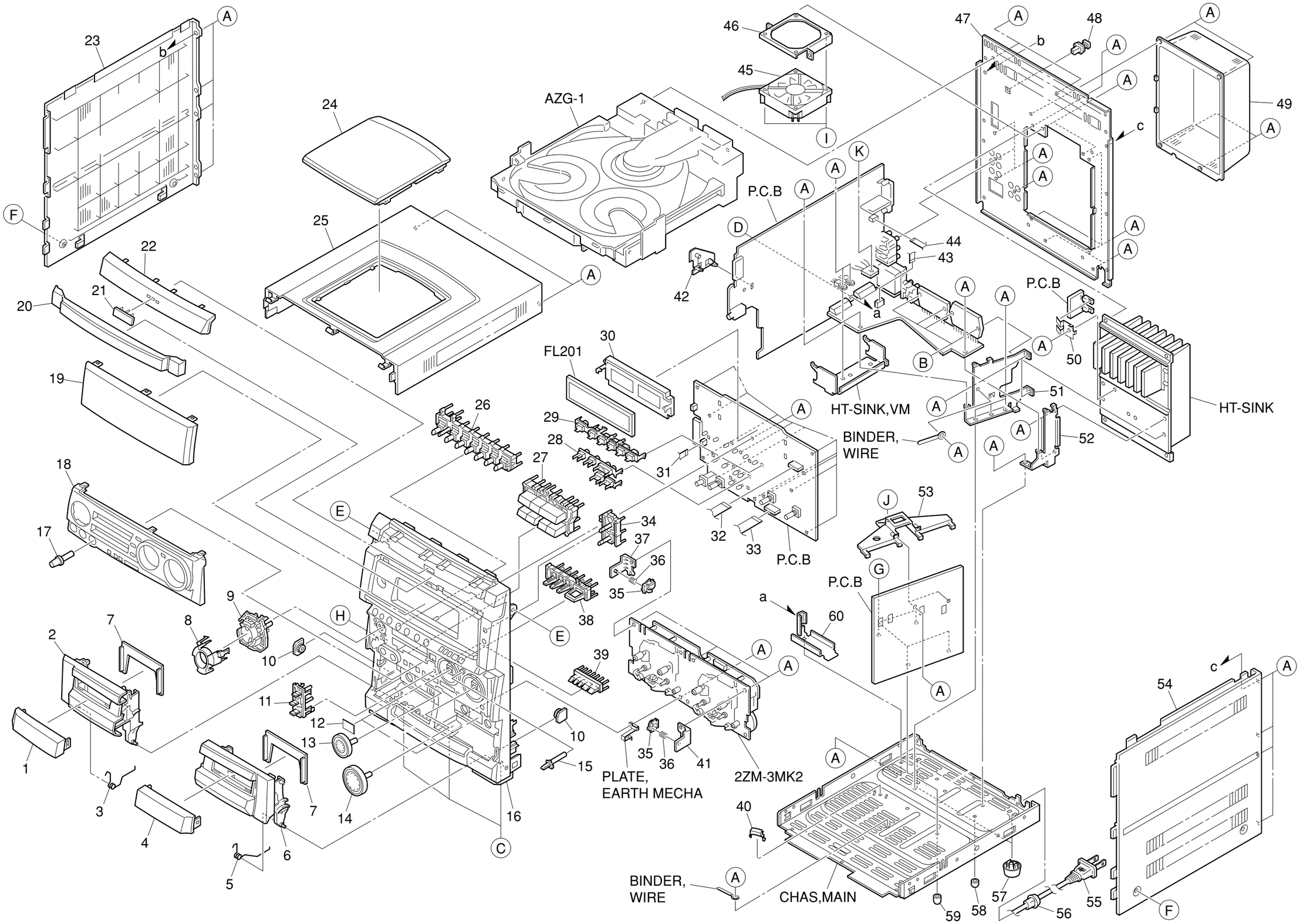
11. REC/PB Frequency Response Adjustment (DECK 2)
    Settings : • Test tape : TTA–602 (Normal)
    • Test point : TP10(Lch), TP11(Rch)
    • Input signal : 1kHz / 10kHz (LINE IN)
    • Adjustment location : SFR351 (Lch) SFR352 (Rch)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the test points becomes 9.0mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output level of the 10kHz signals becomes 0dB ± 0.5dB with respect to that of the 1kHz signal.

12. REC/PB Frequency response Check (DECK 2)
    Settings : • Test tape : TTA-615 (CrO_2)
    • Test point : TP10(Lch), TP11(Rch)
    • Input signal : 1kHz/10kHz (LINE IN)
    Method : Apply a 1kHz signal and REC mode. Then Adjust OSC attenuator so that the output level at the test points becomes 9.0mV. Record and play back the 1kHz and 10kHz signals and check that the output is 0dB ± 2dB.

13. REC/PB Sensitivity Check (DECK 2)
    Settings : • Test tape : TTA-615 (CrO_2)
    • Test point : TP10(Lch), TP11(Rch)
    • Input signal : 1kHz (LINE IN)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the test points becomes 90mV. Record and play back the 1kHz signal and check that the output is -1dB ± 3dB.

14. μ-CON OSC Adjustment
    Settings : • Test point : TP5(K-SCAN)
    • Adjustment location : L101
    Method : Insert AC plug with pressing TUNER function key. Adjust L101 so that the frequency across the test point is 208.8Hz ± 0.2Hz.

MECHANICAL EXPLODED VIEW 1 / 1



MECHANICAL PARTS LIST 1 / 1

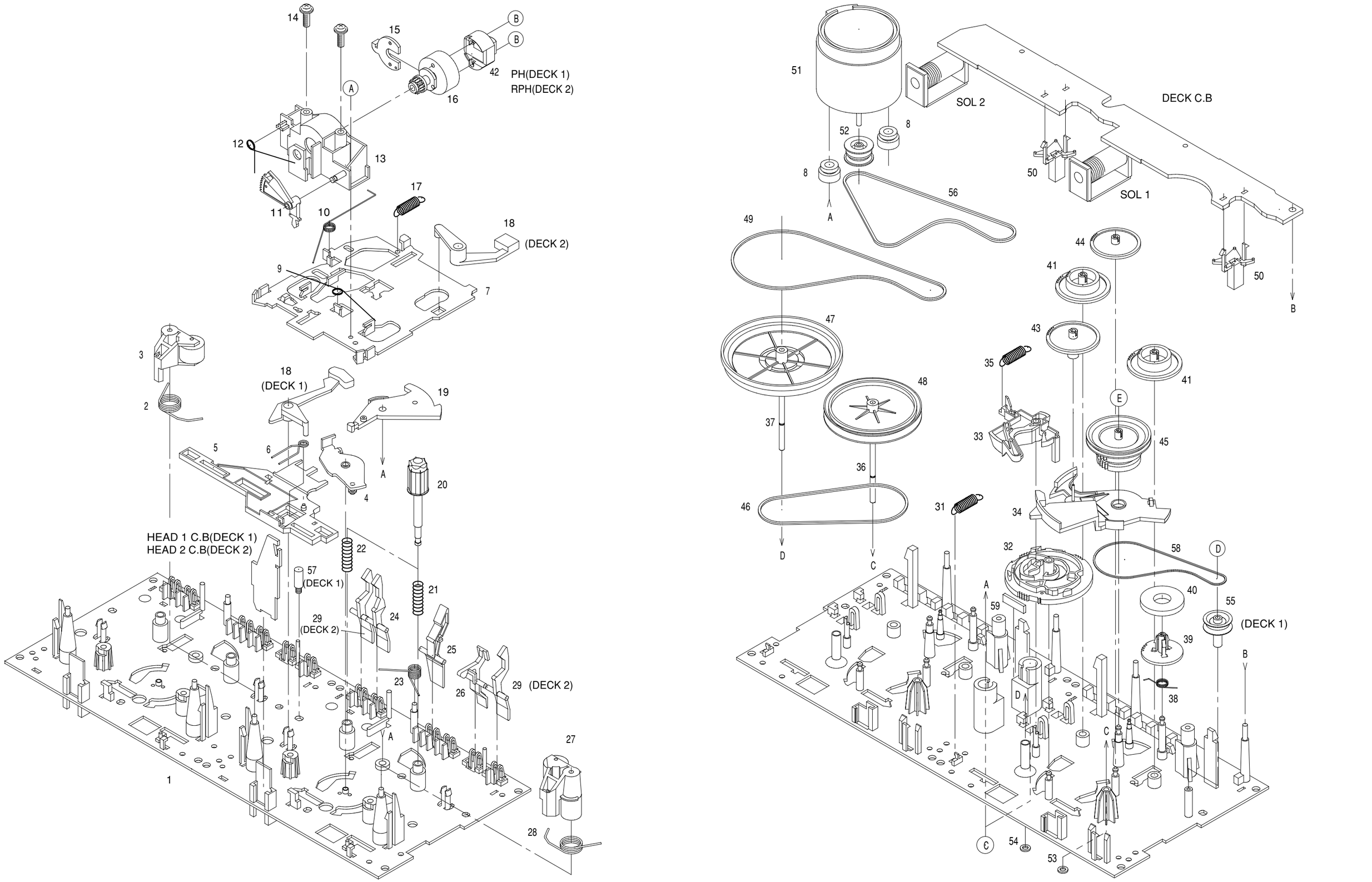
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NF7-010-010		WINDOW,CASS 1
2	8A-NF7-003-010		BOX,CASS 1
3	82-NF5-218-010		SPR-T,EJECT 1 (SIN)
4	8A-NF7-011-010		WINDOW,CASS 2
5	82-NF5-219-010		SPR-T,EJECT 2 (SIN)
6	8A-NF7-004-010		BOX,CASS 2
7	86-NF6-061-010		REFLECTOR,CASS
8	8A-NF7-012-010		PANEL,DIRECT
9	8A-NF7-041-010		KEY,ASSY CD
10	8Z-NF6-210-010		DMPR,150 N
11	8A-NF7-029-010		KEY,GEQ
12	81-532-080-010		LABEL, CASS. COMPT
13	8A-NF7-048-010		KNOB,RTRY ASSY JOG
14	8A-NF7-049-010		KNOB,RTRY ASSY VOL
15	8A-NF7-023-010		KEY,ENTER
16	8A-NF7-083-010		CABI,FR LH
17	8A-NF7-015-010		KNOB,RTRY MIC
18	8A-NF7-020-010		PANEL,ASSY FR U
19	8A-NF7-093-010		WINDOW,DISP LH<70LH>
19	8A-NF7-096-010		WINDOW,DISP LH73<73LH>
20	8A-NF7-005-010		PANEL,TRAY U
21	87-CE3-023-010		BADGE,AIWA 30N SILV
22	8A-NF7-008-010		PANEL,CD
23	8A-NF8-007-010		PANEL,LEFT V-2
24	8A-NF8-006-010		WINDOW,TOP
25	8A-NF8-005-010		PANEL,TOP
26	8A-NF7-035-010		KEY,ASSY FUN
27	8A-NF7-026-010		KEY,ASSY OPE
28	8A-NF7-214-010		GUIDE,OPE
29	8A-NF7-213-010		GUIDE,FUN
30	87-NF5-203-110		GUIDE,FL(*)
31	85-NF7-605-010		CONN ASSY 4P V 8MM
32	85-NF5-618-010		CABLE,FFC 13P-1.25
33	88-915-171-110		FF-CABLE, 15P 1.25 170MM
34	8A-NF7-021-010		KEY,BBE
35	82-NF5-229-010		PLATE,LOCK
36	86-NF9-224-010		SPR-C,LOCK
37	87-NF4-216-010		HLDR,LOCK 1
38	8A-NF7-046-010		KEY,KARAOKE
39	8A-NF7-022-010		KEY,SPICE

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
40	87-NF4-221-010		HLDR,CABLE
41	87-NF4-217-110		HLDR,LOCK 2
42	8A-NF8-206-010		HLDR,PWB M
43	8A-NF8-656-010		CONN ASSY 5P TID-A 400
44	85-NF5-617-010		CABLE,FFC 6P-1.25
45	87-A91-711-010		FAN, 3110GL-B4W-B34-H02 -400MM
46	8A-NF6-219-010		HLDR,FAN
47	8A-NF7-144-010		PANEL,REAR LHSM-F<70LH>
47	8A-NF7-147-010		PANEL,REAR LHSM73-F<73LH>
48	84-ZG1-245-210		CAP,OPTICAL
49	8A-NF7-053-010		COVER, REAR H
50	8A-NF7-226-010		HLDR,IC2-T2
51	8A-NF7-207-010		HLDR,HT L
52	8A-NF7-208-010		HLDR,HT R
53	8A-NF6-217-010		HLDR,PWB PT
54	8A-NF7-112-010		PANEL,RIGHT V-2
⚠ 55	87-A80-092-010		AC CORD ASSY,E BLK SUN FAI
56	87-085-185-010		BUSHING, AC CORD (E)
57	87-085-221-010		FOOT,H13.5
58	8Z-NB8-254-010		COVER, PL M3
59	8Z-NB8-240-010		COVER, PL
60	8A-NF7-209-010		HLDR,PWB-M BTM
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-067-581-010		TAPPING SCREW, BVT2+3-15
C	87-067-688-010		BVTT+3-6
D	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
E	87-721-097-410		QT2+3-12 GLD
F	87-067-641-010		UTT2+3-8(W/O SLOT)BL
G	87-078-191-010		S-SCREW,IT+4-10
H	87-723-096-410		QT2+3-10W/O SLOT BL
I	87-067-689-010		TAPPING SCREW, BVTT+3-8
J	87-067-579-010		TAPPING SCREW, BVT2+3-8
K	87-067-001-010		S-SCREW BWWST 2+3-12

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

TAPE MECHANISM EXPLODED VIEW 1 / 1



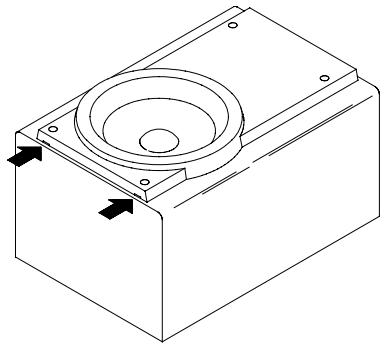
TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-510		CHAS ASSY,M2
2	82-ZM1-258-110		SPR-T,PINCH L
3	82-ZM1-341-110		LVR ASSY,PINCH L2
4	82-ZM1-333-010		PLATE,LINK 2
5	82-ZM1-266-11K		LVR,DIR
6	82-ZM1-214-010		SPR-T,DIR
7	82-ZM1-206-81K		CHAS,HEAD
8	82-ZM3-340-010		SH,BELT D2
9	82-ZM1-269-210		SPR-T,BRG
10	82-ZM1-219-110		SPR-T,LINK
11	82-ZM1-210-110		GEAR,H T
12	82-ZM1-213-010		SPR-T,HEAD
13	82-ZM1-207-610		GUIDE,TAPE
14	86-ZM4-206-010		S-SCREW,AZIMUTH
15	82-ZM1-314-110		PLATE,HEAD
16	82-ZM1-208-110		HLDR,HEAD
17	82-ZM1-218-010		SPR-E,HB
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)
19	82-ZM1-222-21K		LVR,PLAY
20	82-ZM1-217-310		REEL TABLE
21	82-ZM1-244-510		SPR-C,BT
22	82-ZM1-285-310		SPR-C,BT L
23	82-ZM1-257-010		SPR-T,CAS
24	82-ZM1-241-310		LVR,MC
25	82-ZM1-242-010		LVR,CAS
26	82-ZM1-243-010		LVR,STOP
27	82-ZM1-344-110		LVR ASSY,PINCH R2
28	82-ZM1-259-110		SPR-T,PINCH R
29	82-ZM1-240-11K		LVR,REC (DECK 2)
31	82-ZM1-255-310		SPR-E,LVR DIR
32	82-ZM3-305-01K		GEAR,CAM M2
33	82-ZM1-227-21K		LVR,TRIG
34	82-ZM3-306-11K		LVR,FR M2
35	82-ZM1-265-110		SPR-E,TRIG
36	82-ZM3-339-010		SHAFT,COUPLER N3(DECK 1)
37	86-ZM1-206-010		BELT,MAIN L
38	82-ZM1-322-010		SPR-T,FR60
39	82-ZM1-220-210		GEAR,IDLER
40	82-ZM3-616-010		RING MAGNET 4
41	82-ZM1-216-31K		GEAR,REEL
42	87-A90-319-010		HEAD,PH HADKH2 FPC
42	87-A90-320-010		HEAD,RPH HADKH5 FPC
43	82-ZM1-225-21K		GEAR,FR
44	82-ZM1-226-010		GEAR,REW
45	82-ZM3-333-310		SLIP DISK ASSY 2
46	82-ZM1-338-010		BELT FR4
47	82-ZM1-349-110		FLY-WHL,R W(DECK 2)
47	82-ZM3-338-110		FLY-WHL,R3 W(DECK 1)
48	82-ZM1-348-010		FLY-WHL,L W(DECK 2)
48	82-ZM1-348-010		FLY-WHL,L W(DECK 1)
49	82-ZM3-329-210		BELT,SBU R2
50	82-ZM1-245-210		HLDR,IC
51	87-045-347-019		MOT,SHU2L 70(M1)
52	82-ZM3-221-010		PULLEY,MOT 2M
53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
55	82-ZM3-335-210		PULLEY,COUPLER M3(DECK 1)
56	82-ZM3-337-010		BELT,SBU MOT 2
57	82-ZM3-339-010		SHAFT,COUPLER N3(DECK 1)
58	86-ZM1-206-010		BELT,MAIN L
59	82-ZM3-340-010		SH,BELT D2
A	85-ZM3-202-010		S-SCREW,TG
B	80-ZM6-207-019		V+1.6-7
C	82-ZM3-318-019		S-SCRW MOTOR M2
D	87-B10-043-010		W-P,0.99-4-0.25 SLT
E	82-ZM3-334-010		PW,2.16-6-0.4

SPEAKER DISASSEMBLY INSTRUCTIONS

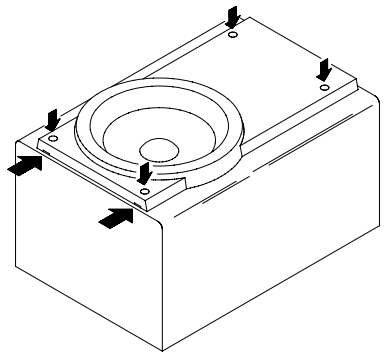
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



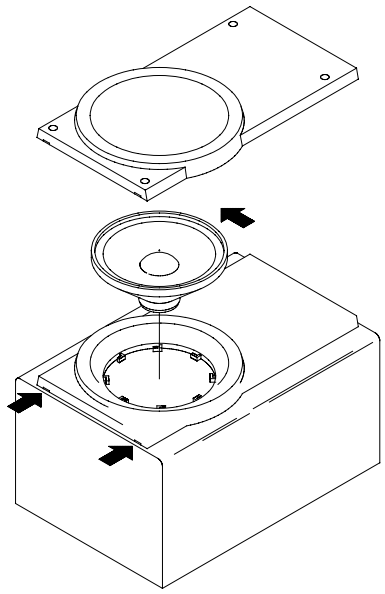
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

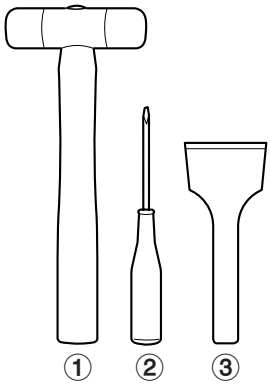


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4



TOOLS

① Plastic head hammer
② (⊖) flat head screwdriver
③ Cut chisel

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.

2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.

3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

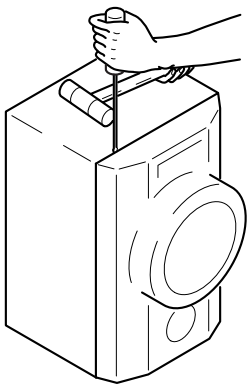


Fig-1

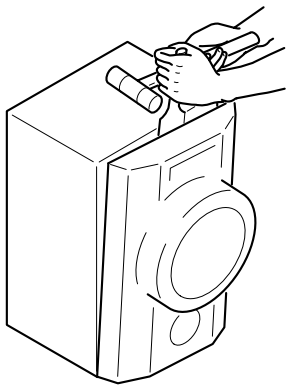


Fig-2

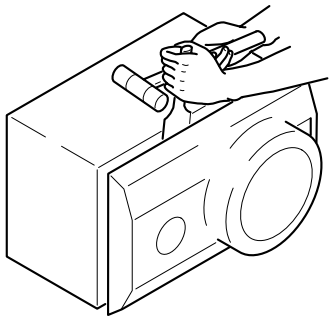


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

SPEAKER PARTS LIST SX-WNS70 (YLSL)<NSX-SZ70>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-NS6-606-110		SPKR, W 160
2	8A-NS7-604-010		SPKR,M 100
3	88-NSK-610-010		SPKR, CERAMIC ASSY
4	8Z-NSY-003-010		CORD,BUSH
5	8A-NS7-017-010		PROTECTOR,
6	88-NS5-610-010		CORD,SPKR
7	88-NS5-611-010		CORD,SPKR B/L
8	8A-NS7-001-010		PANEL,FR
9	8A-NS7-004-010		PANEL,DUCT
10	8A-NS7-005-010		GRILLE,FRAME ASSY

SPEAKER PARTS LIST SX-WNH81 (YLML)<NSX-SZ73>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NSY-001-010		PANEL,FR R
2	8A-NSY-002-010		PANEL,FR L
3	8A-NSY-003-010		PANEL,BA R
4	8A-NSY-004-010		PANEL,BA L
5	8A-NSY-005-010		GRILLE,FRAME ASSY
6	8A-NS6-602-010		SPKR,W 200
7	8A-NS0-604-010		SPKR,M 120
8	88-NS5-610-010		CORD,SPKR
9	88-NS5-611-010		CORD,SPKR B/L
10	8A-NSY-011-010		RING,W
11	8A-NSY-012-010		COVER, REAR

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9820572 0251431 Printed in Singapore